

# **Pemcor Commercial / Industrial Business Park Project**

## **Air Quality and Health Risk Assessment Report**

**September 2024**

**CEQA Lead Agency:**

City of Menifee  
Community Development Department  
29844 Haun Road  
Menifee, CA 92586

**Project Applicant:**

PEMCOR Investment Group  
Vancouver, BC Canada

**Prepared by:**



1650 Spruce Street, Suite 106  
Riverside, California 92507

*This document is formatted for double-sided printing to conserve natural resources.*

## Table of Contents

<b>EXECUTIVE SUMMARY .....</b>	<b>1</b>
<b>1 INTRODUCTION .....</b>	<b>1-1</b>
1.1 Report Organization .....	1-1
<b>2 PROPOSED PROJECT DESCRIPTION .....</b>	<b>2-1</b>
2.1 Project Location .....	2-1
2.1.1 Site Land Use and Zoning .....	2-1
2.1.2 Surrounding Land Uses .....	2-1
2.2 Existing Site Description and Operations .....	2-1
2.3 Proposed Site Development and Operations .....	2-3
2.3.1 Site Layout and Building Description .....	2-3
2.3.2 Site Access and Parking .....	2-3
2.3.3 Project Operations .....	2-5
2.4 Project Construction .....	2-8
<b>3 ENVIRONMENTAL SETTING AND REGULATORY FRAMEWORK.....</b>	<b>3-1</b>
3.1 Regional Environmental Setting .....	3-1
3.1.1 Regulated Air Pollutants .....	3-1
3.1.2 Regional Air Pollutant Emissions Levels .....	3-3
3.1.3 South Coast Air Basin Climate, Topography, and Meteorology .....	3-3
3.1.4 Regional Air Quality Conditions and Attainment Status .....	3-6
3.2 Local Environmental Setting .....	3-7
3.2.1 Local Air Quality Conditions .....	3-9
3.2.2 Sensitive Air Quality Receptors .....	3-10
3.2.3 Existing Health Risks and Disadvantaged Communities .....	3-11
3.2.4 Existing Site Operations and Emissions Estimates .....	3-14
3.3 Federal, State, and Local Air Quality Regulations .....	3-14
3.3.1 Federal Air Quality Regulations .....	3-14
3.3.2 State Air Quality Regulations .....	3-14
3.3.3 Regional Air Quality Regulations .....	3-15
3.3.4 City of Menifee .....	3-17
<b>4 AIR QUALITY IMPACT AND HEALTH RISK ANALYSIS.....</b>	<b>4-1</b>
4.1 Thresholds of Significance .....	4-1
4.1.1 Regional and Toxic Air Contaminant Significance Thresholds .....	4-1
4.1.2 Localized Significance Thresholds .....	4-2
4.1.3 Carbon Monoxide “Hot Spot” Thresholds .....	4-3
4.2 Analysis Methodology .....	4-3
4.2.1 Mass-Based Criteria Air Pollutant and Construction TAC Emissions .....	4-3
4.2.2 Construction Exhaust PM <sub>10</sub> Modeling Methodology .....	4-5
4.2.3 Operational Exhaust PM <sub>10</sub> Modeling Methodology .....	4-8
4.2.4 Health Risk Analysis Methodology .....	4-18
4.3 Consistency With The Applicable Air Quality Plan .....	4-20
4.4 Cumulatively Considerable Increase in Regulated Nonattainment Pollutants .....	4-21
4.4.1 Construction Emissions .....	4-21
4.4.2 Operational Emissions .....	4-22
4.4.3 Conclusion .....	4-23

4.5	Sensitive Receptors And Substantial Pollutant Concentrations .....	4-23
4.5.1	Localized Significance Thresholds Analysis .....	4-23
4.5.2	Toxic Air Contaminant Emissions / Health Risk Assessment .....	4-25
4.6	Odors .....	4-30
<b>5</b>	<b>REPORT PREPARERS AND REFERENCES.....</b>	<b>5-1</b>
5.1	References.....	5-1

### List of Tables

Table 2-1:	Project Trip Generation Rates .....	2-6
Table 2-2:	Construction Activity, Duration, and Typical Equipment .....	2-8
Table 3-1:	South Coast Air Basin Emissions Summary .....	3-4
Table 3-2:	Summary of Ambient Air Quality Standards and Attainment Status .....	3-8
Table 3-3:	2021-2023 Local Air Quality Data for Perris Valley .....	3-10
Table 3-4:	CalEnviroScreen Health Risk Information.....	3-13
Table 4-1:	SCAQMD-Recommended CEQA Thresholds.....	4-1
Table 4-2:	SCAQMD Localized Significance Thresholds for Source Receptor Area 24 .....	4-2
Table 4-3:	AERMOD Source Parameters and Emission Rates .....	4-6
Table 4-4:	Composite PM <sub>10</sub> Emission Factors .....	4-9
Table 4-5:	Truck Distribution.....	4-10
Table 4-6:	On-Site Idling Source Activity, Annual Emissions, and Emissions Rate .....	4-10
Table 4-7:	Truck Travel Source Activity, Annual Emissions, and Emissions Rate .....	4-11
Table 4-8:	Modeled Emissions Source Location.....	4-14
Table 4-9:	Modeled Emissions Source Dimensions.....	4-16
Table 4-10:	Cancer Risk Equations .....	4-19
Table 4-11:	Inhalation Dose Equations.....	4-19
Table 4-12:	Non-Cancer Risk Equation .....	4-20
Table 4-13:	Unmitigated Construction Emissions Estimates .....	4-21
Table 4-14:	Mitigated Construction Emissions Estimates .....	4-22
Table 4-15:	Unmitigated Operational Emissions Estimates (Year 2026) .....	4-22
Table 4-16:	Construction Emissions Localized Significance Thresholds Analysis .....	4-23
Table 4-17:	Operational Emissions Localized Significance Thresholds Analysis.....	4-24
Table 4-18:	Unmitigated Cancer Risk at PMI and MEIR.....	4-26

**List of Figures**

Figure 2-1: Aerial View of the Project Site ..... 2-2  
Figure 2-2: Site Plan ..... 2-4  
Figure 2-3: Truck Trip Distribution ..... 2-7  
Figure 3-1: 24-Hour Wind Conditions at the Perris Meteorological Station (Blowing From)..... 3-5  
Figure 3-2: Daytime Wind Conditions at the Perris Meteorological Station (Blowing From)..... 3-6  
Figure 4-1: Modeled Construction Emissions Sources ..... 4-7  
Figure 4-2: Modeled Operational Emissions Sources ..... 4-13  
Figure 4-3: Modeled Year 1 Construction Annual Average DPM Concentrations ( $\mu\text{g}/\text{m}^3$ ) ..... 4-27  
Figure 4-4: Modeled Year 2 Construction Annual Average DPM Concentrations ( $\mu\text{g}/\text{m}^3$ ) ..... 4-28  
Figure 4-5: Modeled Operational Annual Average DPM Concentrations ( $\mu\text{g}/\text{m}^3$ ) ..... 4-29

**Appendices**

- Appendix A: CalEEMod Emissions Outputs
- Appendix B: AERMOD Output Files
- Appendix C: Health Risk Assessment Calculations

<b>List of Acronyms, Abbreviations, and Symbols</b>	
<b>Acronym / Abbreviation</b>	<b>Full Phrase or Description</b>
AB	Assembly Bill
ACC	Advanced Clean Cars
APN	Assessor Parcel Number
AQ	Air Quality
AQMP	Air Quality Management Plan
AREA	Area Source
ARLN	Area Line Source
Basin	South Coast Air Basin
CAA	Clean Air Act
Cal-EPA	California Environmental Protection Agency
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CARB	California Air Resources Board
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CO	Carbon Monoxide
DPM	Diesel Particulate Matter
GHG	Greenhouse Gas(es)
GVWR	Gross Vehicle Weight Rating
H <sub>2</sub> S	Hydrogen Sulfide
HAP	Hazardous Air Pollutants
HI	Hazard Index
HHDT	Heavy Heavy-Duty Truck
HR	Hour
HRA	Health Risk Assessment
HVAC	Heating, Ventilation, and Air Conditioning
IPCC	Intergovernmental Panel on Climate Change
KBtu	Thousand British Thermal Units
LDA	Light Duty Auto
LDT	Light Duty Truck
LHDT	Light Heavy-Duty Truck
LST	Localized Significance Threshold
m <sup>3</sup>	Cubic Meter

<b>List of Acronyms, Abbreviations, and Symbols</b>	
<b>Acronym / Abbreviation</b>	<b>Full Phrase or Description</b>
MATES V	Multiple Air Toxics Exposure Study in the South Coast Air Basin
MEIR	Maximally Exposed Individual Resident
MG	Milligrams
MHDT	Medium Heavy-Duty Truck
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NO	Nitric Oxide
NO <sub>x</sub>	Oxides of Nitrogen
O <sub>3</sub>	Ozone
OEHHA	Office of Environmental Health Hazard Assessment
PPB	Parts Per Billion
PPM	Parts Per Million
PM	Particulate Matter
PM <sub>2.5</sub>	Fine Particulate Matter
PM <sub>10</sub>	Coarse Particulate Matter
PMI	Point of Maximum Impact
PRC	Public Resources Code
ROG	Reactive Organic Gases
RTP	Regional Transportation Plan
SB	Senate Bill
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategy
SIP	State Implementation Plan
SO <sub>2</sub>	Sulfur Dioxide
SO <sub>x</sub>	Sulfates
SRA	Source Receptor Area
TAC	Toxic Air Contaminants
U.S.	United States
U.S. EPA	United States Environmental Protection Agency
V.	Version
VMT	Vehicle Miles Travelled
VOC	Volatile Organic Compounds

---

<b>List of Acronyms, Abbreviations, and Symbols</b>	
<b>Acronym / Abbreviation</b>	<b>Full Phrase or Description</b>
VOL	Volume Source
µg	Micrograms
§	Section
° F	Degrees Fahrenheit

## EXECUTIVE SUMMARY

---

This Air Quality and Health Risk Assessment Report (Report) evaluates and documents the potential air quality and health risk impacts associated with the construction and operation of the proposed Pemcor Commercial / Industrial Business Park Project (proposed Project) located at 33521 Zeiders Road in the southern part of the City of Menifee, in Riverside County.

This Report is consistent with the guidance and recommendations contained in the South Coast Air Quality Management District's (SCAQMD) California Environmental Quality Act (CEQA) *Air Quality Handbook*, as amended and supplemented. This Report is intended to assist the CEQA Lead Agency (City of Menifee; "City") with its review of potential Project-related air quality and health risk impacts in compliance with the State CEQA Statutes and Guidelines, particularly in respect to the air quality issues identified in Appendix G of the State CEQA Guidelines.

### S.1 PROPOSED PROJECT DESCRIPTION

Pemcor Investment Corporation is proposing to demolish an existing, single-family home and construct a new commercial/industrial business park development consisting of eleven single-story buildings at 33521 Zeiders Road in the southern portion of the City of Menifee. The Project site is approximately 0.25 miles west of Interstate 215 (I-215) and approximately 0.5 miles south of Scott Road. The business park complex would be located on approximately 20.03 acres and be comprised of approximately 337,770 square feet of building space, with each building ranging from approximately 23,100 square feet to 37,840 square feet. The buildings would be massed into five primary groupings:

- Two of the groupings would be located on the eastern portion of the site, comprised of one building each, and front Zeiders Road.
- Two of the groupings would be located on the interior of the site, oriented in a west-east direction, and comprised of three buildings each.
- The final grouping would be located on the western portion of the site, oriented in a north-south orientation, comprised of three buildings, and located adjacent to Howard Way.

Site access would be provided via two (2) driveways along Zeiders Road. The northern driveway would be for automobiles only, while the southern driveway would be for both automobiles and trucks.

The proposed complex would feature a total of approximately 22 truck dock doors. Each building would feature two truck docks inset into the building and oriented toward the center of the site. Truck access would be provided along the site's southern driveway that ties into Zeiders Road. Onsite truck movements would occur along the interior of the site (i.e., main drive isle). Parking spaces for commuter vehicles (e.g., cars and pick-up trucks) would be present on all sides of the buildings, except for those facing the interior of the site (i.e., the same side truck docks would be located), and along the perimeter of the site.

The proposed Project would involve construction and operational activities that would generate emissions of regulated air pollutants from construction equipment, area sources, energy use and consumption, and mobile sources (including trucks). The proposed Project would also involve travel and idling by diesel-powered trucks, which would generate emissions of diesel particulate matter, or DPM, a pollutant identified by the California Air Resources Board as a toxic air contaminant (TAC). Construction activities are anticipated to last approximately 18 months and begin in early 2025. The proposed Project is a speculative development, meaning that no tenants have signed lease agreements for any of the

buildings; however, end users are anticipated to provide a wide range of services ranging from industrial and manufacturing uses to service-commercial and office uses. Hours of operation for the complex are planned to be 6 AM to 11 PM, daily.

## **S.2 POTENTIAL CONSTRUCTION AIR QUALITY IMPACTS**

The proposed Project's construction emissions were estimated using the California Emissions Estimator Model (CalEEMod), Version (V.) 2022.1. CalEEMod is a computer program recommended for use by the SCAQMD for use in preparing emission estimates for land use and development projects. The modeling indicates maximum daily emissions during unmitigated construction activities would exceed the SCAQMD regional threshold for daily VOC emissions. With mitigation, which would require the use of Super-Compliant VOC coatings (as defined by the SCAQMD; see S.6 below), maximum daily emissions would be below all applicable SCAQMD regional and local thresholds for regulated air pollutants.

## **S.3 POTENTIAL OPERATIONAL AIR QUALITY IMPACTS**

The proposed Project would result in the operation of a new business park complex consisting of approximately 337,770 square feet. The proposed Project's potential operational emissions were estimated using CalEEMod and found to be below all applicable SCAQMD regional and localized thresholds for regulated air pollutants, including ozone precursor pollutants (i.e., reactive organic gases and oxides of nitrogen) and particulate matter.

## **S.4 HEALTH RISK ASSESSMENT**

A health risk assessment (HRA) was prepared to evaluate potential cancerogenic and non-cancerogenic health effects that could result from receptor exposure to DPM. Construction activities associated with the proposed Project would require the use of heavy-duty, off-road, diesel-powered equipment (e.g., loaders, tractors, backhoes, bulldozers, etc.) that would generate DPM during the combustion of fuel. Operational activities at the site would also include the use of diesel trucks that would generate DPM emissions during on- and off-site travel and on-site idling.

The HRA was prepared in accordance with applicable guidelines from the California Office of Environmental Health Hazard Assessment (OEHHA) and the SCAQMD and utilized PM<sub>10</sub> exhaust emissions estimates for the construction portion of the HRA, and emission factors derived from EMFAC2021 in conjunction with Project-specific truck trip and idling characteristics from the Project's Traffic Scoping Agreement prepared by Ganddini Group for the operational portion of the HRA (Ganddini, 2024). The U.S. Environmental Protection Agency (U.S. EPA)- and SCAQMD-approved American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD, V. 23132) was used to predict pollutant concentrations at existing sensitive receptors near the Project area. The AERMOD dispersion model simulates the dispersion of pollutant emissions and estimates ground level concentrations of pollutants at specified receptor locations. Predicted ground level concentrations of DPM were then assessed for potential health risks in accordance with SCAQMD and OEHHA methodologies.

The results of the modeling indicate the maximally exposed individual receptor, or MEIR, is located south of the Project site at 33751 Zeiders Road. The unmitigated incremental increase in excess cancer risk at this location is 6.8 in one million, which is less than the SCAQMD threshold of 10.0 in one million.

In addition, based on the results of the dispersion modeling, the maximum annual average concentration of DPM (0.03465 micrograms of PM<sub>10</sub> exhaust per cubic meter) and resulting non-carcinogenic health hazard index (0.007) at the MEIR location would not exceed the SCAQMD health hazard index threshold of 1.0.

Finally, the HRA indicates the population-wide cancer burden is approximately 0.001, which is below the SCAQMD threshold of 0.5.

## S.5 ODORS

The proposed Project would involve construction and operational activities that could generate odors typical of many construction and business park land use operations. These types of odors (e.g., exhaust) would be quick to disperse and would be located in portion of the city undergoing redevelopment with other, similar types of uses.<sup>1</sup> The proposed Project would not result in the creation of objectionable odors that would affect a substantial number of people.

## S.6 RECOMMENDED MITIGATION MEASURES

MIG recommends the City incorporate the following mitigation measure into the Project's CEQA environmental documentation to reduce construction VOC emissions associated with the proposed Project that would have the potential to exceed applicable SCAQMD regional criteria air pollutant thresholds.

**Mitigation Measure AIR-1: Reduce VOC Emissions.** To reduce VOC emissions associated with the application of architectural coatings, the construction contractor for the Project shall be required to utilize "Super-Compliant" VOC architectural coatings for interior and exterior paint applications at the proposed business park during construction. Consistent with the South Coast Air Quality Management District's definition, "Super-Compliant" architectural coatings shall have a maximum VOC content of 10 grams of VOC per liter.

---

<sup>1</sup> The Project site has a zoning designation of Economic Development Corridor – Southern Gateway (EDC-SG). As described in the Zoning Code as a portion of the city that, "feature(s) a business park style of development consisting of light industrial and office uses, with commercial use opportunities. The objective is to allow development while preserving the rural character of the Southern Gateway area" (City of Menifee, 2024a).

*This page intentionally left blank.*

# 1 INTRODUCTION

---

Pemcor Investment Corporation (the Applicant) has applied to the City of Menifee (City) for a Land Use and Development Application for its proposed Pemcor Commercial / Industrial Business Park Project (proposed Project). The proposed Project would be located approximately 0.25 miles west of I-215 and 0.5 miles south of Scott Road, in the southern portion of the city. The Project would involve developing 11 buildings that would collectively comprise approximately 337,770 square feet. Each building would have two truck dock doors (total of 22 truck doors for the site) that would be oriented toward the center of the site.

MIG, Inc. (MIG) has prepared this Air Quality and Health Risk Assessment Report (Report) to evaluate the potential construction- and operations-related air quality and health risk impacts of the proposed Project. MIG has prepared this Report using Project-specific information contained in the Site Plan for the proposed Project, as well as the Traffic Scoping Agreement prepared for the Project by Ganddini Group (Ganddini, 2024). Where necessary, MIG has supplemented available information with standardized sources of information, such as model assumptions pertaining to construction equipment activity levels. In general, this Report evaluates the potential “worst-case” conditions associated with the proposed Project’s construction and operational emissions levels to ensure a conservative (i.e., likely to overestimate) assessment of potential air quality and health risk impacts is presented.

This Report is intended for use by the City to assess the potential air quality impacts of the proposed Project in compliance with the California Environmental Quality Act (CEQA; PRC §21000 et seq.) and the State CEQA Guidelines (14 CCR §15000 et seq.), particularly in respect to the air quality issues identified in Appendix G of the State CEQA Guidelines.

## 1.1 REPORT ORGANIZATION

This Report is organized as follows:

- **Chapter 1, Introduction**, explains the contents of this Report and its intended use.
- **Chapter 2, Proposed Project Description**, provides an overview of the construction and operational activities associated with the proposed Project.
- **Chapter 3, Environmental and Regulatory Setting**, provides pertinent background information on air quality, describes the existing air quality setting of the proposed Project, and provides information on the federal, state, and local regulations that govern the proposed Project’s air quality setting and potential air quality impacts.
- **Chapter 4, Air Quality Impact and Health Risk Assessment**, the potential construction and operational air quality impacts of the proposed Project, including the methodology and results of the project’s construction and operational health risk assessment, and evaluates these effects in accordance with Appendix G of the State CEQA Guidelines.
- **Chapter 5, Report Preparers and References**, list the individuals involved, and the references used, in the preparation of this Report.

*This page intentionally left blank.*

## **2 PROPOSED PROJECT DESCRIPTION**

---

Pemcor Investment Corporation (the Applicant) is proposing to develop the Pemcor Commercial / Industrial Business Park Project (proposed Project). The proposed Project would consist of demolishing an existing single-family residence and constructing a new 11 unit/building business park, totaling approximately 337,770 square feet of gross building space.

### **2.1 PROJECT LOCATION**

The proposed Project would be located at 33521 Zeiders Road in the southern portion of the City of Menifee, in Riverside County. The Project is a primarily undeveloped, approximately 20.03-acre (gross), rectangular-shaped parcel of land (Assessor's Parcel Number (APN) 384-150-001). The site is bound by rural residential land uses on the north, south, and west, and light industrial land uses to the east. Zeiders Road and Howard Way run along the eastern and western sides of the site, respectively (see Figure 2-1: Aerial View of the Project **Site**).

The Project site is, at closest, approximately 0.25 miles west of Interstate 215 (I-215) and 0.5 miles south of Scott Road.<sup>2</sup>

#### **2.1.1 SITE LAND USE AND ZONING**

The site is designated by the City's General Plan and zoned by the City's zoning code as Economic Development Corridor – Southern Gateway (City of Menifee, 2024b).

#### **2.1.2 SURROUNDING LAND USES**

The proposed Project site is surrounded by rural residences to the north, west, and south, and light industrial land uses to the west.

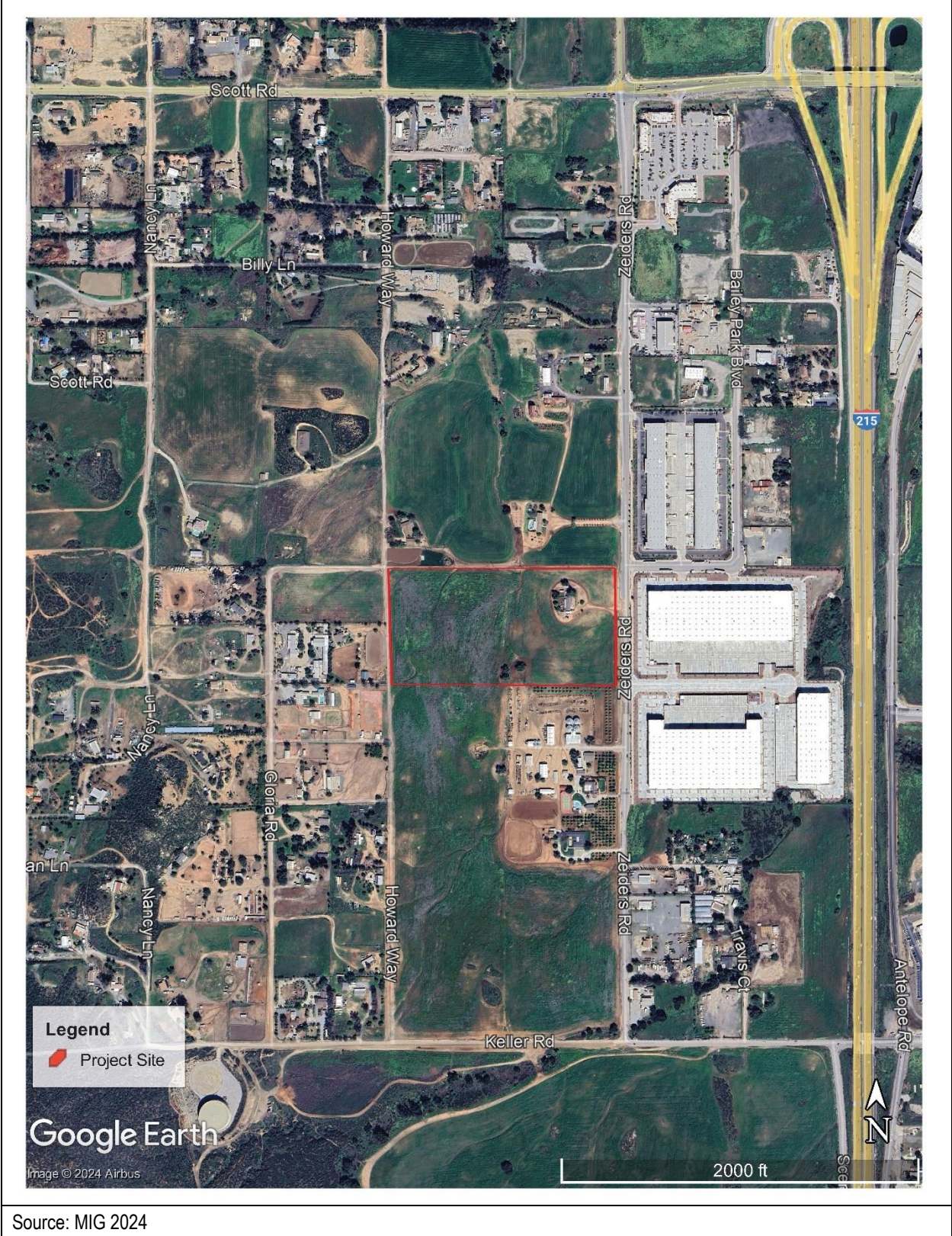
### **2.2 EXISTING SITE DESCRIPTION AND OPERATIONS**

The Project site is currently developed with a single-family residence and associated structures (e.g., garage). The majority of the site is comprised of vacant land.

---

<sup>2</sup> Unless otherwise indicated, reported distances are measured between the edge of the listed feature (e.g., road or rail right-of-way, land use property boundary, etc.) and the Project's closest property line.

Figure 2-1: Aerial View of the Project Site



Source: MIG 2024

## 2.3 PROPOSED SITE DEVELOPMENT AND OPERATIONS

The proposed Project would involve the development of a new, approximately 337,770 square feet business park, which would be split across 11 buildings. The entire 20.03 acre would be graded; the portions of the site not developed with the business park would either be hardscaped (e.g., parking or sidewalks) or landscaped. The proposed Project site plan is shown in Figure 2-2.

### 2.3.1 SITE LAYOUT AND BUILDING DESCRIPTION

The rectangular Project site would feature 11 buildings under proposed conditions, with the buildings being massed into five primary groupings.

- Two of the groupings would be located on the eastern portion of the site, fronting Zeiders Road, and be comprised of one building each.
- Two of the groupings would be located on the interior of the site, be oriented in an east-west direction, and be comprised of three buildings each.
- The final grouping would be located on the western portion of the site, oriented in a north-south direction, comprised of three buildings, and be located adjacent to Howard Way.

Each building would be between approximately 23,100 square feet to 37,840 square feet, and feature two (2) truck dock doors that would be oriented toward the center of the site (a total of 22 truck docks at the site). Building heights would range between 38 and 40 feet above ground level.

The buildings would be set back approximately 91 feet from the site's northern property line, approximately 97.5 feet from the western property line, approximately 93 feet from the southern property line, and approximately 96.5' from the eastern property line.

### 2.3.2 SITE ACCESS AND PARKING

Access to the site would be provided via two driveways on Zeiders Road. The southern driveway would provide truck and passenger car access to the site, while the northern/central driveway would only provide access to passenger vehicles. Once on site, passenger vehicles / trucks would navigate to their destination building. Due to site layout, trucks would be traveling from the southern driveway, through the drive aisle that runs through the middle of the site, to their building destination.

Approximately 667 passenger vehicle parking spaces would be provided on site. The site plan identifies these parking spaces as being located adjacent to the sides of the building that do not include truck docks, as well as on the perimeter of the site.

A total of 22 truck docks would be provided by the proposed business park complex. Each building would feature two dock doors, which would be oriented toward the center of the site. The site does not include a trailer parking area.

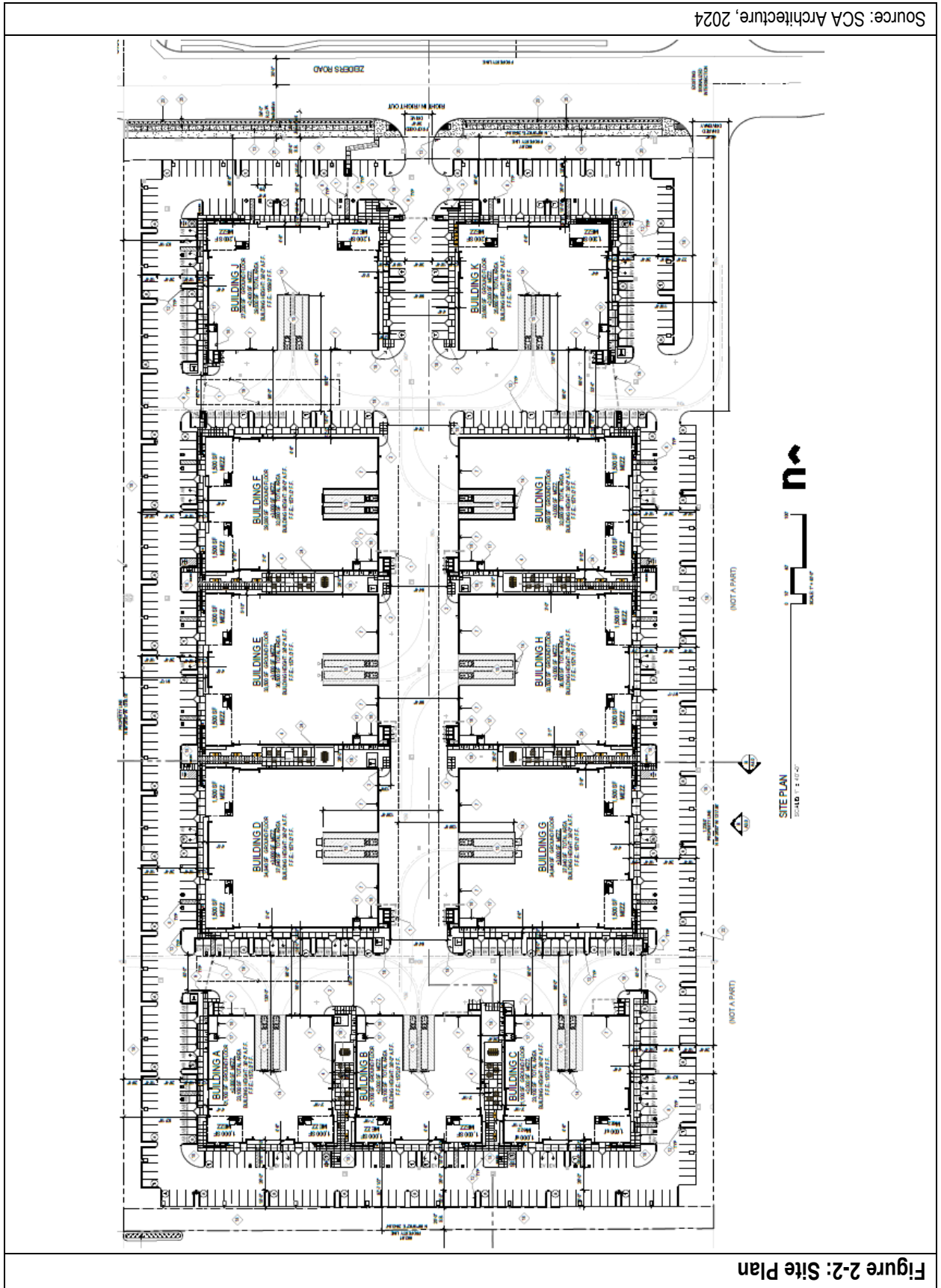


Figure 2-2: Site Plan

Source: SCA Architecture, 2024

### 2.3.3 PROJECT OPERATIONS

The proposed Project is considered a speculative development, because tenants/end users have not been identified. Although Project-specific details are not known, the Applicant anticipates that tenants of the business park would provide a wide range of services ranging from industrial and manufacturing uses to service-commercial and office uses, and employ approximately 553 individuals (PEMCOR, 2024). These types of uses generally generate emissions from sources such as on- and off-site vehicle trips, on-site truck maneuvering, loading, and unloading activities, on-site parking, and other on-site operations. With regards to potential Project operations that could generate emission, this Report assumes:

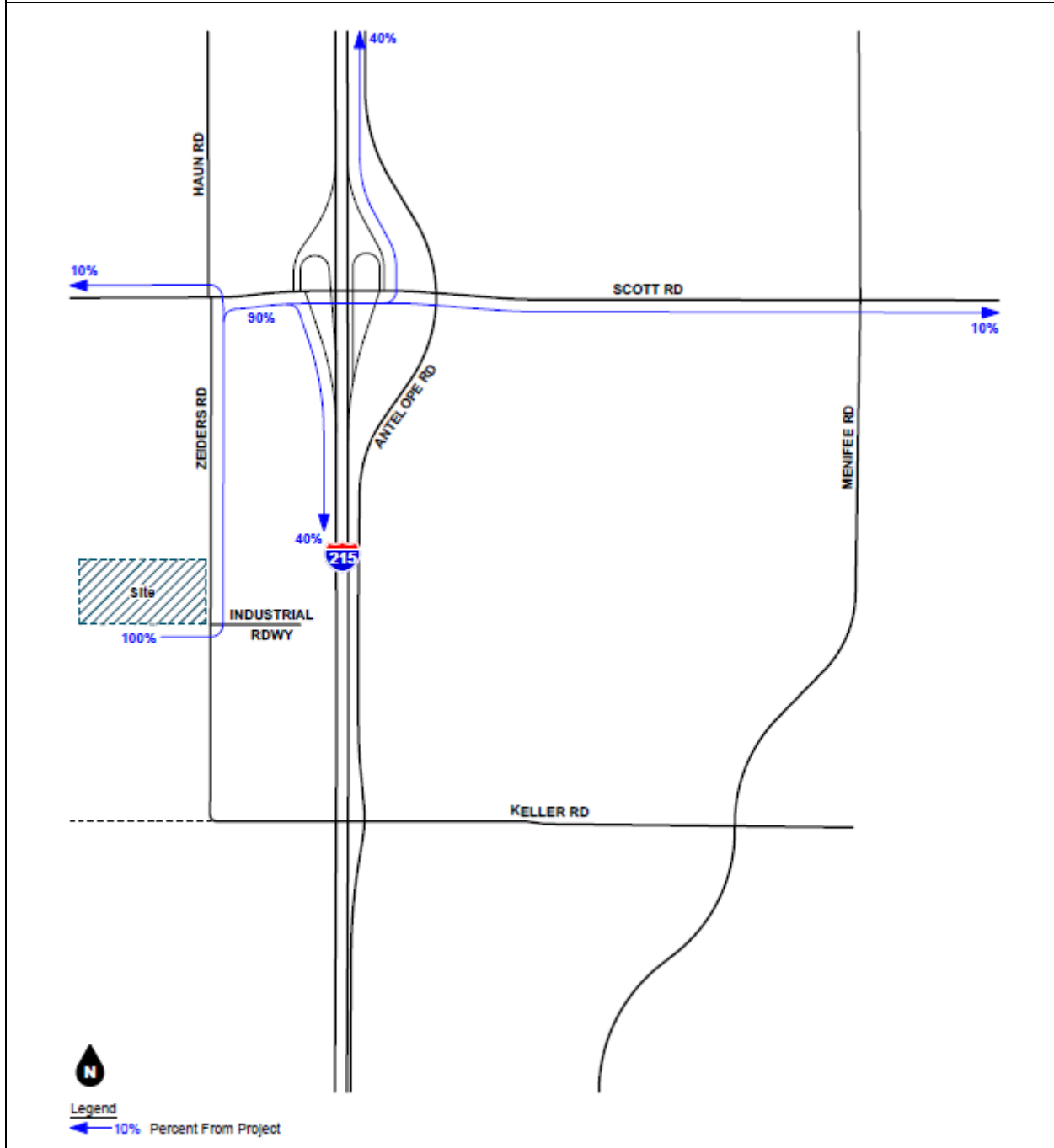
- **Hours of Operation:** The Project would operate from approximately 6 AM to 11 PM, daily (PEMCOR, 2024).
- **Vehicle Trip Generation:** The proposed Project's trip generation potential, as provided in the Traffic Scoping Agreement prepared for the Project and modified as necessary for the purposes of this Report, is summarized in **Table 2-1** (Ganddini Group, 2024).<sup>3</sup> As shown in Table 2-1, the proposed Project would result in 911 total vehicle trips per day, including 757 passenger vehicle trips and 154 truck trips. The closest highway / freeway to the Project site is I-215, which can be accessed via Scott Road on- and off-ramps located north of the site. Consistent with the truck trip distribution identified in the Traffic Scoping Agreement, 100% of the truck trips would travel north on Zeiders Road, 10% would travel on Scott Road west of the site, and 90% would travel on Scott Road east of the site (see Figure 2-3 for truck trip distribution; Ganddini 2024). All trucks would enter and exit via the southern driveway.

---

<sup>3</sup> The Traffic Scoping Agreement only includes a breakdown of the number of trucks for the Industrial Park Land Use; does not include a breakdown of trucks for the Business Park Land Use. Therefore, CalEEMod's default fleet mix was used to estimate the number of 2-, 3-, and 4-axle trucks that could be generated by the proposed Project.

<b>Table 2-1: Project Trip Generation Rates</b>				
<b>Vehicle Type</b>	<b>AM Peak Hour</b>	<b>PM Peak Hour</b>	<b>Average Daily Trips</b>	
			<b>Number</b>	<b>Percent</b>
<b>Industrial Park</b>				
Passenger Cars	81	81	757	83.1%
Truck Trips				
2-axle	1	1	12	1.3%
3-axle	1	1	11	1.2%
4-axle	9	10	131	14.4%
Subtotal <sup>(A)</sup>	11	12	154	16.9%
<i>IP Subtotal</i>	92	93	911	100%
<b>Business Park</b>				
Passenger Cars	83	83	780	92.9%
Truck Trips				
2-axle	3	3	34	4.0%
3-axle	1	1	12	1.5%
4-axle	1	1	14	1.6%
Subtotal <sup>(A)</sup>	5	5	60	7.1%
<i>BP Subtotal</i>	88	88	840	100.0%
<b>Proposed Project</b>				
Passenger Cars	164	164	1,537	87.8%
Truck Trips				
2-axle	4	4	46	2.6%
3-axle	2	2	23	1.3%
4-axle	10	11	145	8.3%
Subtotal <sup>(A)</sup>	16	17	214	12.2%
<i>Total</i>	180	181	1,751	100.0%
Source: Ganddini, 2024, Tables 1 and 2; EMFAC2021				
(A) Totals may not equal due to rounding.				

Figure 2-3: Truck Trip Distribution



Source: Ganddini, 2024, Figure 5

## 2.4 PROJECT CONSTRUCTION

Construction of the proposed Project is anticipated to begin in early 2025 and take approximately 18 months to complete. The development of the approximately 20.03-acre site and the construction of the approximately 337,770 square feet business park complex would require (minor) demolition, site preparation, grading, building construction, paving, and architectural coating phases/activities. The project is anticipated to require 2,000 cubic yards of soil off haul. The proposed Project is anticipated to require varying types of equipment throughout the different construction phases including, but not limited to, bulldozers, backhoes, loaders, graders, cranes and forklifts. Table 2-2 summarizes the proposed Project's construction phasing and the typical pieces of heavy-duty, off-road construction equipment that would be required during each phase.

<b>Table 2-2: Construction Activity, Duration, and Typical Equipment</b>		
<b>Construction Activity</b>	<b>Duration (Days)<sup>(A)</sup></b>	<b>Typical Equipment Used<sup>(B)</sup></b>
Demolition	20	Saws, Excavator, Dozer
Site Preparation	10	Dozer, Tractor/Loader/Backhoe
Grading	35	Excavator, Scraper, Grader, Dozer, Backhoe
Building Construction	282	Crane, Generator, Forklift, Backhoe, Welder
Paving	20	Paver, Paving Equipment, Roller
Architectural Coating	20	Air Compressor
Source: See Appendix A.		
(A) Days refers to total active workdays in the construction phase, not calendar days. There would not be any overlapping days between construction phases.		
(B) The typical equipment list does not reflect all equipment that would be used during the construction phase. Not all equipment would operate eight hours per day each workday.		

### 3 ENVIRONMENTAL SETTING AND REGULATORY FRAMEWORK

---

This chapter provides information on the environmental and regulatory air quality setting of the proposed Project. Information on existing air quality conditions, federal and state ambient air quality standards, and pollutants of concern was obtained from the U.S. Environmental Protection Agency (U.S. EPA), California Air Resources Board (CARB), and South Coast Air Quality Management District (SCAQMD).

#### 3.1 REGIONAL ENVIRONMENTAL SETTING

Air quality is a function of pollutant emissions and topographic and meteorological influences. The amount of pollutants emitted into the air and the physical features and atmospheric conditions of a geographic region interact to affect the movement and dispersion of pollutants and determine the quality of its air.

The U.S. EPA and CARB are the federal and state agencies charged with maintaining air quality in the nation and state, respectively. The U.S. EPA delegates much of its authority over air quality to CARB. CARB has geographically divided the state into 15 air basins for the purposes of managing air quality on a regional basis. An air basin is a CARB-designated management unit with similar meteorological and geographic conditions. The proposed Project is located in Riverside County, within the South Coast Air Basin (Basin). The Basin includes Orange County and the non-desert portions of Los Angeles, San Bernardino, and Riverside Counties.

##### 3.1.1 REGULATED AIR POLLUTANTS

The U.S. EPA has established National Ambient Air Quality Standards (NAAQS) for six common air pollutants: ozone (O<sub>3</sub>), particulate matter (PM), which consists of “inhalable coarse” PM (particles with an aerodynamic diameter between 2.5 and 10 microns in diameter, or PM<sub>10</sub>) and “fine” PM (particles with an aerodynamic diameter smaller than 2.5 microns, or PM<sub>2.5</sub>), carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), sulfur dioxide (SO<sub>2</sub>), and lead. The U.S. EPA refers to these six common pollutants as “criteria” pollutants because the agency regulates the pollutants on the basis of human health and/or environmentally-based criteria. CARB has established California Ambient Air Quality Standards (CAAQS) for the six common air pollutants regulated by the federal Clean Air Act plus the following additional air pollutants: hydrogen sulfide (H<sub>2</sub>S), sulfates (SO<sub>x</sub>), vinyl chloride, and visibility reducing particles. A description of the regulated air pollutants associated with the proposed Project is provided below.

- **Ground-level ozone**, or smog, is not emitted directly into the atmosphere. It is created from chemical reactions between oxides of nitrogen (NO<sub>x</sub>) and volatile organic compounds (VOCs), also called reactive organic gases (ROG), in the presence of sunlight (U.S. EPA, 2022a). Thus, ozone formation is typically highest on hot sunny days in urban areas with NO<sub>x</sub> and ROG pollution. Ozone irritates the nose, throat, and air pathways and can cause or aggravate shortness of breath, coughing, asthma attacks, and lung diseases such as emphysema and bronchitis.
  - **ROG** is a CARB term defined as any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, and includes several low-reactive organic compounds which have been exempted by the U.S. EPA (CARB, 2004).

- **VOC** is a U.S. EPA term defined as any compound of carbon, excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions. The term exempts organic compounds of carbon which have been determined to have negligible photochemical reactivity such as methane, ethane, and methylene chloride (CARB, 2004).
- **Particulate matter (PM)**, also known as particle pollution, is a mixture of extremely small solid and liquid particles made up of a variety of components such as organic chemicals, metals, and soil and dust particles (U.S. EPA, 2022b).
  - PM<sub>10</sub>, also known as inhalable coarse, respirable, or suspended PM<sub>10</sub>, consists of particles less than or equal to 10 micrometers in diameter (approximately 1/7<sup>th</sup> the thickness of a human hair). These particles can be inhaled deep into the lungs and possibly enter the blood stream, causing health effects that include, but are not limited to, increased respiratory symptoms (e.g., irritation, coughing), decreased lung capacity, aggravated asthma, irregular heartbeats, heart attacks, and premature death in people with heart or lung disease (U.S. EPA, 2022b).
  - PM<sub>2.5</sub>, also known as fine PM, consists of particles less than or equal to 2.5 micrometers in diameter (approximately 1/30<sup>th</sup> the thickness of a human hair). These particles pose an increased risk because they can penetrate the deepest parts of the lung, leading to and exacerbating heart and lung health effects (U.S. EPA, 2022b).
- **Carbon Monoxide (CO)** is an odorless, colorless gas that is formed by the incomplete combustion of fuels. Motor vehicles are the single largest source of carbon monoxide in the Basin. At high concentrations, CO reduces the oxygen-carrying capacity of the blood and can aggravate cardiovascular disease and cause headaches, dizziness, unconsciousness, and even death (U.S. EPA, 2022c).
- **Nitrogen Dioxide (NO<sub>2</sub>)** is a by-product of combustion. NO<sub>2</sub> is not directly emitted but is formed through a reaction between nitric oxide (NO) and atmospheric oxygen. NO and NO<sub>2</sub> are collectively referred to as NO<sub>x</sub> and are major contributors to ozone formation. NO<sub>2</sub> also contributes to the formation of particulate matter. NO<sub>2</sub> can cause breathing difficulties at high concentrations (U.S. EPA, 2016d).
- **Sulfur Dioxide (SO<sub>2</sub>)** is one of a group of highly reactive gases known as oxides of sulfur (SO<sub>x</sub>). Fossil fuel combustion in power plants and industrial facilities are the largest emitters of SO<sub>2</sub>. Short-term effects of SO<sub>2</sub> exposure can include adverse respiratory effects such as asthma symptoms. SO<sub>2</sub> and other SO<sub>x</sub> can react to form PM (U.S. EPA, 2016e).
- **Sulfates (SO<sub>4</sub><sup>2-</sup>)** are the fully oxidized ionic form of sulfur. SO<sub>4</sub><sup>2-</sup> are primarily produced from fuel combustion. Sulfur compounds in the fuel are oxidized to SO<sub>2</sub> during the combustion process and subsequently converted to sulfate compounds in the atmosphere. Sulfate exposure can increase risks of respiratory disease (CARB, 2022).

In addition to criteria air pollutants, the U.S. EPA and CARB have classified certain pollutants as hazardous air pollutants (HAPs) or toxic air contaminants (TACs), respectively. These pollutants can cause severe health effects at very low concentrations, and many are suspected or confirmed carcinogens. The U.S. EPA has identified 187 HAPs, including such substances as arsenic and chlorine; CARB considers all U.S. EPA designated HAPs, as well as particulate emissions from diesel-fueled engines (DPM) and other substances, to be a TAC. Since CARB's list of TACs references and includes U.S. EPA's list of HAPs, this document uses the term TAC when referring to HAPs and TACs. A description of the TACs associated with the proposed Project and its vicinity is provided below.

- **Gasoline-Powered Mobile Sources.** According to the SCAQMD's *Multiple Air Toxics Exposure Study in the South Coast Air Basin* (SCAQMD, 2021a), or MATES V, gasoline-powered vehicles emit TACs, such as benzene, which can have adverse health risks. Gasoline-powered sources emit TACs in much smaller amounts than diesel-powered vehicles. The MATES V study identifies that diesel emissions account for approximately 50% of the total air toxics and cancer risk in the Basin, while Benzene, 1,3-Butadiene, and Carbonyls make up approximately 25% of the cancer risk.
- **Diesel Particulate Matter (DPM).** Diesel engines emit both gaseous and solid material; the solid material is known as DPM. Almost all DPM is less than 1 micrometer ( $\mu\text{m}$ ) in diameter, and thus is a subset of  $\text{PM}_{2.5}$ . DPM is typically composed of carbon particles and numerous organic compounds. Diesel exhaust also contains gaseous pollutants, including VOCs and  $\text{NO}_x$ . The primary sources of diesel emissions are ships, trains, trucks, rail yards and heavily traveled roadways. These sources are often located near highly populated areas, resulting in greater DPM related health consequences in urban areas. The majority of DPM is small enough to be inhaled into the lungs and what particles are not exhaled can be deposited on the lung surface and in the deepest regions of the lungs where the lung is most susceptible to injury. In 1998, CARB identified DPM as a toxic air contaminant based on evidence of a relationship between diesel exhaust exposure and lung cancer and other adverse health effects. DPM also contributes to the same non-cancer health effects as  $\text{PM}_{2.5}$  exposure (CARB 2016).

Common criteria air pollutants, such as ozone precursors,  $\text{SO}_2$ , and PM, are emitted by a large number of sources and have effects on a regional basis (i.e., throughout the Basin); other pollutants, such as HAPs, TACs, and fugitive dust, are generally not as prevalent and/or emitted by fewer and more specific sources. As such, these pollutants have much greater effects on local air quality conditions and local receptors.

### 3.1.2 REGIONAL AIR POLLUTANT EMISSIONS LEVELS

CARB's estimate of the amount of emissions generated within the Basin in 2017, the most recent year for which data is available, is summarized in Table 3-1.

### 3.1.3 SOUTH COAST AIR BASIN CLIMATE, TOPOGRAPHY, AND METEOROLOGY

Riverside County and the broader Los Angeles Basin are defined by a semi-arid, Mediterranean climate with mild winters and warm summers. The San Gabriel, San Bernardino, and San Jacinto Mountains bound the Basin to the north and east trap ambient air and pollutants within the Los Angeles and Inland Empire valleys below. The climate of the greater Los Angeles region is classified as Mediterranean, but weather conditions within the Basin are dependent on local topography and proximity to the Pacific Ocean. The climate is dominated by the Pacific high-pressure system that results in generally mild, dry summers and mild, wet winters. This temperate climate is occasionally interrupted by extremely hot temperatures during the summer, Santa Ana winds during the fall, and storms from the Pacific northwest during the winter. In addition to the basin's topography and geographic location, El Niño and La Niña patterns also have large effects on weather and rainfall received between November and March.

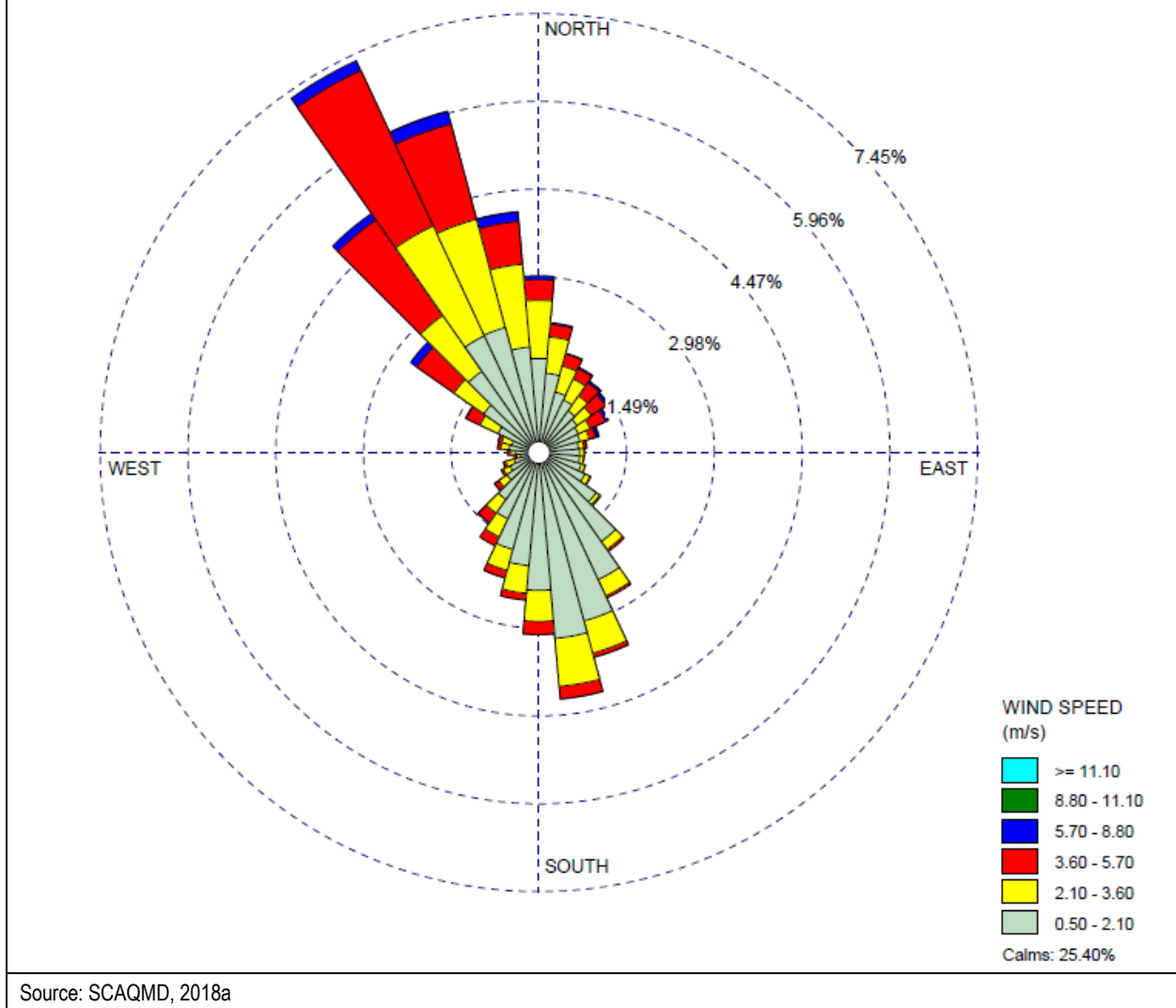
<b>Table 3-1: South Coast Air Basin Emissions Summary</b>							
<b>Emissions Source</b>	<b>2017 Pollutant Emissions (Tons Per Day)</b>						
	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>PM<sub>2.5</sub></b>	<b>PM<sub>10</sub></b>	<b>PM</b>	<b>CO</b>	<b>SO<sub>x</sub></b>
Stationary <sup>(A)</sup>	87	42	13	18	26	85	8
Area-wide <sup>(B)</sup>	130	20	32	117	221	53	0
Mobile <sup>(C)</sup>	185	298	17	30	31	1,650	5
Total <sup>(D)</sup>	529	367	72	179	292	1,893	15
<b>Emissions Source</b>	<b>2017 Pollutant Emissions (Tons Per Year)</b>						
	<b>ROG</b>	<b>NO<sub>x</sub></b>	<b>PM<sub>2.5</sub></b>	<b>PM<sub>10</sub></b>	<b>PM</b>	<b>CO</b>	<b>SO<sub>x</sub></b>
Stationary <sup>(A)</sup>	31,675	15,217	4,595	6,526	9,432	30,901	2,982
Area-wide <sup>(B)</sup>	47,395	7,420	11,519	42,661	80,815	19,436	128
Mobile <sup>(C)</sup>	67,598	108,901	6,074	11,081	11,344	602,261	1,796
Total <sup>(D)</sup>	193,300	690,989	26,246	65,196	106,722	690,989	5,636
Source: CARB, 2022b, modified by MIG.							
(A) Stationary sources include fuel combustion in stationary equipment, waste disposal, cleaning and surface coatings, petroleum production and marketing, or a specific type of facility such as printing and metals processing facilities.							
(B) Mobile sources include automobiles, trucks, and other vehicles intended for "on-road" travel and other self-propelled machines such as aircraft, ocean going vessels, construction equipment, and all-terrain vehicles intended for "off-road" travel.							
(C) Area-wide sources include solvent evaporation (e.g., consumer products, painting, and asphalt paving) and miscellaneous processes such as residential space heating, fugitive windblown dust, and cooking.							
(D) Totals may not equal due to rounding.							

The Pacific high-pressure system drives the prevailing winds in the Basin. The winds tend to blow onshore in the daytime and offshore at night. In the summer, an inversion layer is created over the coastal areas and increases ozone levels. A temperature inversion is created when a layer of cool air is overlain by a layer of warmer air; this can occur over coastal areas when cool, dense air that originates over the ocean is blown onto land and flows underneath the warmer, drier air that is present over land. In the winter, areas throughout the Basin often experience a shallow inversion layer that prevents the dispersion of surface level air pollutants, resulting in higher concentrations of criteria air pollutants such as CO and NO<sub>x</sub>.

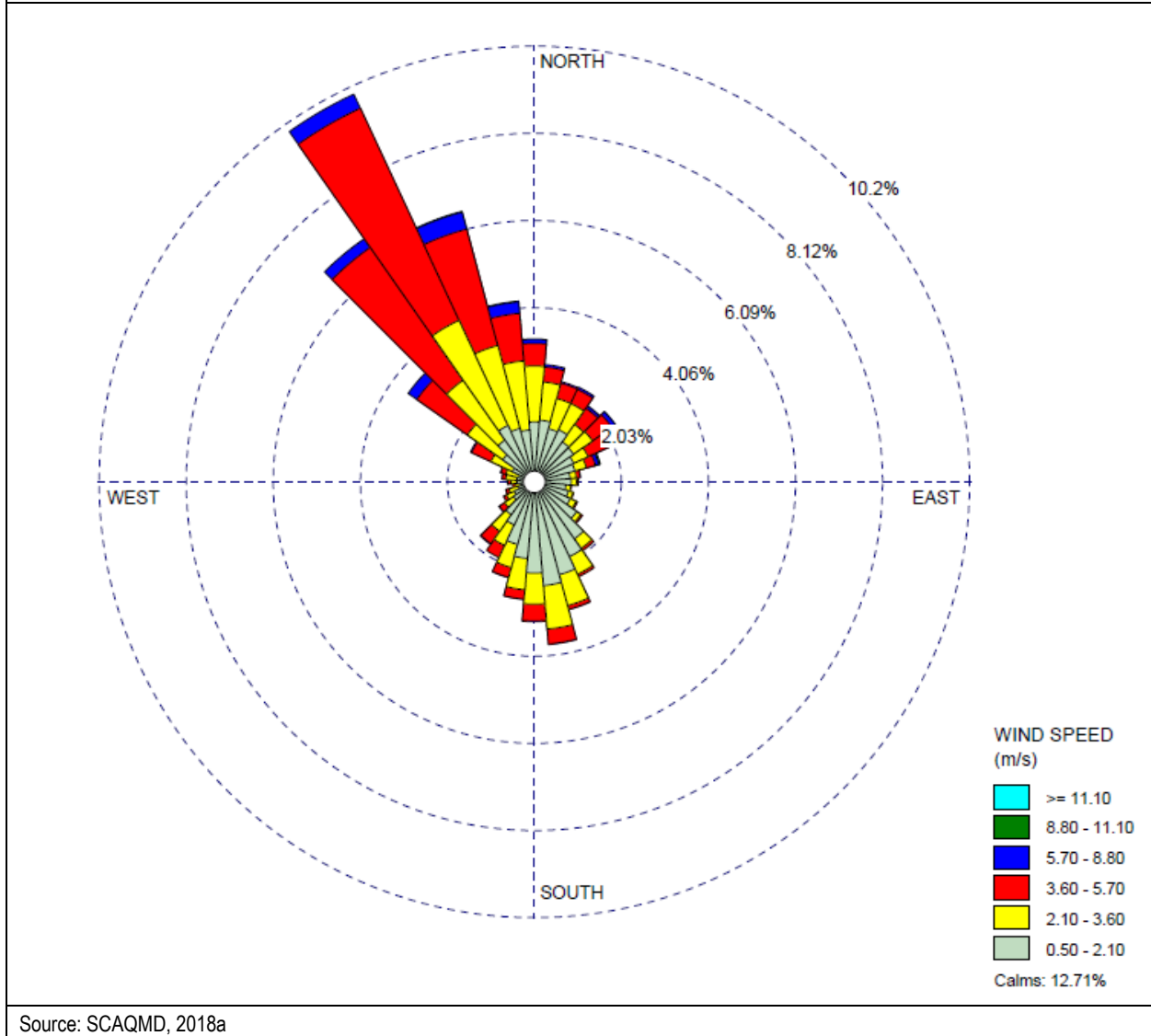
Temperatures near the Project site range from a high of 98 degrees Fahrenheit (F) in August to a low of 34 degrees Fahrenheit in December. Annual precipitation is approximately 11 inches, falling mostly from January through March (WRCC, 2006).

The SCAQMD maintains publicly meteorological data for use in air quality analyses. The closest meteorological station with data representative of those at the Project site is from the Perris Meteorological Station, approximately 11 miles north of the Project site. Wind roses for the Perris Meteorological Station are shown in Figure 3-1 and Figure 3-2. Figure 3-1 includes data from 24 hours a day, while Figure 3-2 includes only data from 7 AM to 7 PM, the approximate hours during which construction are permissible per the City's Municipal Code. Figure 3-1 and Figure 3-2 indicate the prevailing wind near the Project site is from the southwest.

**Figure 3-1: 24-Hour Wind Conditions at the Perris Meteorological Station (Blowing From)**



**Figure 3-2: Daytime Wind Conditions at the Perris Meteorological Station (Blowing From)**



**3.1.4 REGIONAL AIR QUALITY CONDITIONS AND ATTAINMENT STATUS**

As described in Section 3.1.1 and shown in Table 3-2, the federal and state governments have established emission standards and limits for air pollutants which may reasonably be anticipated to endanger public health or welfare. These standards typically take one of two forms: standards or requirements that are applicable to specific types of facilities or equipment (e.g., petroleum refining, metal smelting), or concentration-based standards that are applicable to overall ambient air quality. Air quality conditions are best described and understood in the context of these standards; areas that meet, or attain, concentration-based ambient air quality standards are considered to have levels of pollutants in the ambient air that, based on the latest scientific knowledge, do not endanger public health or welfare.

The U.S. EPA, CARB, and the SCAQMD assess the air quality of an area by measuring and monitoring the amount of pollutants in the ambient air and comparing pollutant levels against NAAQS and CAAQS. Based on these comparisons, regions are classified into one of the following categories:

- **Attainment.** A region is “in attainment” if monitoring shows ambient concentrations of a specific pollutant are less than or equal to NAAQS or CAAQS. In addition, an area that has been re-designated from nonattainment to attainment is classified as a “maintenance area” for 10 years to ensure that the air quality improvements are sustained.
- **Nonattainment.** If the NAAQS or CAAQS are exceeded for a pollutant, the region is designated as nonattainment for that pollutant. It is important to note that some NAAQS and CAAQS require multiple exceedances of the standard in order for a region to be classified as nonattainment. Federal and state laws require nonattainment areas to develop strategies, plans, and control measures to reduce pollutant concentrations to levels that meet, or attain, standards.
- **Unclassified.** An area is unclassified if the ambient air monitoring data are incomplete and do not support a designation of attainment or nonattainment.

Table 3-2 summarizes the Basin’s attainment status for criteria pollutants. The Basin is currently in nonattainment for state and federal ozone, state PM<sub>10</sub>, and state and federal PM<sub>2.5</sub> standards.

Pollution problems in the Basin are caused by emissions within the area and the specific meteorology that promotes pollutant concentrations. Emissions sources vary widely from smaller sources such as individual residential water heaters and short-term grading activities to extensive operational sources including long-term operation of electrical power plants and other intense industrial use. Pollutants in the Basin are blown inward from coastal areas by sea breezes from the Pacific Ocean and are prevented from horizontally dispersing due to the surrounding mountains. This is further complicated by atmospheric temperature inversions that create inversion layers. The inversion layer in Southern California refers to the warm layer of air that lies over the cooler air from the Pacific Ocean. This is strongest in the summer and prevents ozone and other pollutants from dispersing upward. A ground-level surface inversion commonly occurs during winter nights and traps carbon monoxide emitted during the morning rush hour.

## 3.2 LOCAL ENVIRONMENTAL SETTING

The proposed Project is located in the western portion of Riverside County, in the City of Menifee, and is approximately 0.25 miles west of I-215. Rural residences are located north, west, and south of the site. Existing light industrial uses to the east of the Project site as well as vehicles on I-215 and local roadways all contribute to the local air quality conditions in proximity to the Project site.

Pollutant	Averaging Time <sup>(B)</sup>	California Standards <sup>(A)</sup>		National Standards <sup>(A)</sup>	
		Standard <sup>(C)</sup>	Attainment Status <sup>(D)</sup>	Standard <sup>(C)</sup>	Attainment Status <sup>(D)</sup>
Ozone	1-Hour (1979)	--	--	240 µg/m <sup>3</sup>	Nonattainment
	1-Hour (Current)	180 µg/m <sup>3</sup>	Nonattainment	--	--
	8-Hour (1997)	--	--	160 µg/m <sup>3</sup>	Nonattainment
	8-Hour (2008)	--	--	147 µg/m <sup>3</sup>	Nonattainment
	8-Hour (Current)	137 µg/m <sup>3</sup>	Nonattainment	137 µg/m <sup>3</sup>	Nonattainment
PM <sub>10</sub>	24-Hour	50 µg/m <sup>3</sup>	Nonattainment	150 µg/m <sup>3</sup>	Attainment
	Annual Average	20 µg/m <sup>3</sup>	Nonattainment	--	--
PM <sub>2.5</sub>	24-Hour	--	--	35 µg/m <sup>3</sup>	Nonattainment
	Annual Average (1997)	--	--	15 µg/m <sup>3</sup>	Attainment
	Annual Average (2012)	--	--	12 µg/m <sup>3</sup>	Nonattainment
	Annual Average (Current)	12 µg/m <sup>3</sup>	Nonattainment	9 µg/m <sup>3</sup>	-- <sup>(E)</sup>
Carbon Monoxide	1-Hour	23,000 µg/m <sup>3</sup>	Attainment	40,000 µg/m <sup>3</sup>	Attainment
	8-Hour	10,000 µg/m <sup>3</sup>	Attainment	10,000 µg/m <sup>3</sup>	Attainment
Nitrogen Dioxide	1-Hour	339 µg/m <sup>3</sup>	Attainment	188 µg/m <sup>3</sup>	Unclassifiable/Attainment
	Annual Average	57 µg/m <sup>3</sup>	Attainment	100 µg/m <sup>3</sup>	Attainment
Sulfur Dioxide	1-Hour	655 µg/m <sup>3</sup>	Attainment	196 µg/m <sup>3</sup>	Attainment
	24-Hour	105 µg/m <sup>3</sup>	--	367 µg/m <sup>3</sup>	Unclassifiable/Attainment
	Annual Average	--	--	79 µg/m <sup>3</sup>	Unclassifiable/Attainment
Lead	3-Months Rolling	--	--	0.15 µg/m <sup>3</sup>	Nonattainment (Partial)
Hydrogen Sulfide	1-Hour	42 µg/m <sup>3</sup>	Attainment	--	
Sulfates	24-Hour	25 µg/m <sup>3</sup>	Attainment	--	
Vinyl Chloride	24-Hour	26 µg/m <sup>3</sup>	Attainment	--	

Source: SCAQMD 2018b, modified by MIG.

(A) This table summarizes the CAAQS and NAAQS and the Basin's attainments status. This table does not prevent comprehensive information regarding the CAAQS and NAAQS. Each CAAQS and NAAQS has its own averaging time, standard unit of measurement, measurement method, and statistical test for determining if a specific standard has been exceeded. Standards are not presented for visibility reducing particles, which are not concentration-based. The Basin is unclassified for visibility reducing particles.

(B) Ambient air standards have changed over time. This table presents information on the standards previously used by the U.S. EPA for which the Basin does not meet attainment.

(C) All standards are shown in terms of micrograms per cubic meter (µg/m<sup>3</sup>) rounded to the nearest whole number for comparison purposes (with the exception of lead, which has a standard less than 1 µg/m<sup>3</sup>). The actual CAAQS and NAAQS standards specify units for each pollutant measurement.

(D) A= Attainment, N= Nonattainment, U=Unclassifiable.

(E) The current national PM<sub>2.5</sub> standard was finalized in April 2024. The U.S. EPA has not yet made a designation for this new standard.

### 3.2.1 LOCAL AIR QUALITY CONDITIONS

Air pollution levels are measured at monitoring stations located throughout the Basin. The Project site is located in SCAQMD Source Receptor Area (SRA) 24 – Perris Valley. The SCAQMD maintained an air quality monitoring station in Perris until 2022. The next closest station with data that is generally representative of conditions at the Project site is in Lake Elsinore. The Perris monitoring station only collected data on O<sub>3</sub> concentrations. The Lake Elsinore monitoring station collects data on CO, O<sub>3</sub>, NO<sub>2</sub>, and PM<sub>10</sub>. These monitoring stations represent the best approximation of the air quality conditions near the Project site.

Table 3-3 summarizes the published monitoring data from Perris and Lake Elsinore from 2021 to 2023, the three most recent years for which verified, published data was available from the SCAQMD at the time this Report was prepared. Table 3-3 shows that air quality standards at this location have been exceeded for PM<sub>10</sub> and O<sub>3</sub>. This indicates that PM<sub>10</sub> and O<sub>3</sub> concentrations in the vicinity of the Project site are elevated, consistent with the Basin's classification as non-attainment for these pollutants. As shown in Table 3-3:

- The maximum 1-hour and maximum 8-hour CO concentration generally remained about the same between 2021 and 2023. There were no days in which CO standards were exceeded during this time period.
- The maximum 1-hour NO<sub>2</sub> concentration decreased from 2021 to 2022 and increased between 2022 and 2023, but to a level that was still lower than in 2021. The average annual NO<sub>2</sub> concentration decreased from 2021 to 2023 with a small uptick in concentration seen in 2022. There were no days in which NO<sub>2</sub> standards were exceeded during this time period.
- The maximum 1-hour and maximum 8-hour O<sub>3</sub> concentrations generally increased from 2021 to 2023. Despite overall increases to the maximum 1-hour and maximum 8-hour O<sub>3</sub> concentrations, the number of days exceeding state and federal 1-hour and 8-hour standards decreased from 2021 to 2023. The most air quality standard exceedances occurred in 2023 and the least in 2022.
- The maximum 24-hour PM<sub>10</sub> concentration increased slightly between 2021 and 2022, and then almost doubled between 2022 and 2023. In contrast, the annual arithmetic mean declined slightly between 2021 and 2023 with the lowest concentration being observed in 2022. The most air quality exceedances occurred in 2023 (including one exceedance of the federal standard), while the least exceedances occurred in 2022.

<b>Table 3-3: 2021-2023 Local Air Quality Data for Perris Valley</b>				
Pollutant	Ambient Air Standard	Year		
		2021	2022	2023
<i>Ozone (O<sub>3</sub>)</i>				
Maximum 1-hour Concentration (ppm)		0.117 <sup>(A)</sup>	0.121	0.120
Maximum 8-hr Concentration (ppm)		0.094 <sup>(A)</sup>	0.091	0.103
Number of Days Exceeding State 1-hr Standard	>180 µg/m <sup>3</sup>	25 <sup>(A)</sup>	17	10
Number of Days Exceeding State 8-hr Standard	>137 µg/m <sup>3</sup>	60 <sup>(A)</sup>	37	35
Days Exceeding Federal 1-hr Standard	>0.124 ppm	0 <sup>(A)</sup>	0	0
Days Exceeding Federal 8-hr Standard	>0.070 ppm	55 <sup>(A)</sup>	37	31
<i>Carbon Monoxide (CO)</i>				
Maximum 1-hr Concentration (ppm)		0.9	0.9	1.3
Maximum 8-hr Concentration (ppm)		0.8	0.6	0.7
Days Exceeding State 1-hr Standard	>23,000 µg/m <sup>3</sup>	0	0	0
Days Exceeding Federal/State 8-hr Standard	>10,000 µg/m <sup>3</sup>	0	0	0
Days Exceeding Federal 1-hr Standard	>40,000 µg/m <sup>3</sup>	0	0	0
<i>Nitrogen Dioxide (NO<sub>2</sub>)</i>				
Maximum 1-hr Concentration (ppb)		43.7	37.2	41.7
Annual Arithmetic Mean Concentration (ppb)		7.0	7.1	6.7
Days Exceeding State 1-hr Standard	>180 µg/m <sup>3</sup>	0	0	0
<i>Suspended Particulate Matter (PM<sub>10</sub>)<sup>(A)</sup></i>				
Maximum 24-hr Concentration (µg/m <sup>3</sup> )		89	91	186
Annual Arithmetic Mean (µg/m <sup>3</sup> )		21.4	19.8	20.8
Samples Exceeding State 24-hr Standard	>50 µg/m <sup>3</sup>	4	1	5
Samples Exceeding Federal 24-hr Standard	>150 µg/m <sup>3</sup>	0	0	1
<i>Fine Particulate Matter (PM<sub>2.5</sub>)</i>				
Maximum 24-hr Concentration (µg/m <sup>3</sup> )		--(B)	--(B)	--(B)
Annual Arithmetic Mean (µg/m <sup>3</sup> )		--(B)	--(B)	--(B)
Samples Exceeding Federal 24-hr Standard	>35 µg/m <sup>3</sup>	--(B)	--(B)	--(B)
Source: SCAQMD, 2024				
(A) This data is from the Perris monitoring station. All other data is from the Lake Elsinore monitoring station.				
(B) There are no stations in the vicinity of the Project site that monitor PM <sub>2.5</sub> .				

### 3.2.2 SENSITIVE AIR QUALITY RECEPTORS

Some people are more affected by air pollution than others. Sensitive air quality receptors include specific subsets of the general population that are susceptible to poor air quality and the potential adverse health effects associated with poor air quality. Both CARB and the SCAQMD consider residences, schools, parks and playgrounds, childcare centers, athletic facilities, long-term health care facilities, rehabilitation centers, convalescent centers, and retirement homes to be sensitive air quality land uses and receptors (SCAQMD, 2017a; CARB, 2005). The sensitive air quality receptors in proximity of the proposed Project include:

- Residential receptors south of the site, the closest of which is approximately 370 feet from the Project site. This residential receptor has a driveway that ties into Zeiders Road.

- A residential receptor north of the site, approximately 210 feet from the Project site. This receptor has a driveway that ties into Zeiders Road.
- A residential receptor north of the site, approximately 130 feet from the Project site. This receptor has a driveway that ties into Howard Way.
- Residential receptors west of the site, the closest of which is located approximately 240 feet from the Project site. This receptor has a driveway that ties into Howard Way.

### 3.2.3 EXISTING HEALTH RISKS AND DISADVANTAGED COMMUNITIES

The existing sensitive air quality receptors located in close proximity to the Project site are exposed to air pollution associated with motor vehicles operating on I-215, overhead aircraft, and light industrial uses in proximity of the site. The following subsections identify existing sources of information that attempt to quantify community health risks based on the sources of pollution they are exposed to.

#### 3.2.3.1 Existing and Planned Light Industrial Facilities

The Project site is located within 0.25 miles of approximately five light industrial buildings over 50,000 square feet. Each one of these buildings is located to the east of the Project site on Zeiders Road and Ciccotti Street.

#### 3.2.3.2 SCAQMD MATES V Carcinogenic Risk Map

According to the SCAQMD's MATES V Carcinogenic Risk Map, the existing carcinogenic risk in the Project's zip code is approximately 297 incremental cancer cases per million population, which places higher than 13.0% of the SCAQMD population (SCAQMD, 2021b).<sup>4</sup> This estimate reflects regional modeling efforts that largely do not account for site specific emission rates and dispersion characteristics that typically result in refined and substantially lower health risk estimates.

#### 3.2.3.3 CalEnviroScreen and Disadvantaged Communities (Senate Bill 535)

CalEnviroScreen is a mapping tool that helps identify California communities that are most affected by many sources of pollution, and where people are often especially vulnerable to pollution's effects. While CalEnviroScreen was originally developed as part of Senate Bill (SB) 535 and used to identify disadvantaged communities for the purposes of allocating funding from the State's Cap-and-Trade regulation, its application and scope have expanded over the years. The tool uses environmental, health, and socioeconomic information to produce scores for every census tract in the state. The CalEnviroScreen model is made up of four components – two pollution burden components (exposures and environmental effects) and two population characteristics components (sensitive populations and socioeconomic factors). The four components are further divided into 21 indicators. An indicator is a measure of either environmental conditions, in the case of pollution burden indicators, or health and vulnerability factors, in the case of population characteristic indicators.

---

<sup>4</sup> The potential cancer risk for a given substance is expressed as the incremental number of potential cancer cases that could be developed per million people, assuming that the population is exposed to the substance at a constant annual average concentration over a presumed 70-year lifetime. These risks are usually presented in chances per million. For example, if the cancer risks were estimated to be 100 per million, the probability of an individual developing cancer due to a lifetime of exposure would be one hundred in a million, or one in ten thousand. In other words, this predicts an additional 100 cases of cancer in a population of a million people over a 70-year lifetime (SCAQMD, 2021c).

- **Exposure** indicators are based on the measurements of different types of pollution that people may come into contact with. Exposure indicators include:
  - Air Quality: Ozone
  - Air Quality: PM<sub>2.5</sub>
  - Children’s Lead Risk from Housing
  - Diesel Particulate Matter
  - Drinking Water Contaminants
  - Pesticide Use
  - Toxic Releases from Facilities
  - Traffic Density
- **Environmental effects** indicators are based on the locations of toxic chemicals in or near communities. Environmental effects indicators include:
  - Cleanup Sites
  - Groundwater Threats
  - Hazardous Waste Generators and Facilities
  - Impaired Water Bodies
  - Solid Waste Sites and Facilities
- **Sensitive population** indicators measure the number of people in a community who may be more severely affected by pollution because of their age or health. Sensitive population indicators include:
  - Asthma
  - Cardiovascular Disease
  - Low Birth Weight Infants
- **Socioeconomic factor** indicators are conditions that may increase people’s stress or make healthy living difficult and cause them to be more sensitive to pollution’s effects (OEHHA 2018). Socioeconomic factors include:
  - Educational Attainment
  - Housing Burden
  - Linguistic Isolation
  - Poverty
  - Unemployment

Each census tract receives scores for as many of the 20 indicators as possible, and the scores are then mapped so that different communities can be compared. Percentiles are assigned to each census tract based on the census tract’s score in relation to the rest of the state. An area with a high percentile is one that experiences a much higher pollution burden than areas with low scores. For example, if a census tract has an indicator in the 40<sup>th</sup> percentile, it means that indicator’s percentile is higher than 40 percent of the census tracts in the state. CalEnviroScreen also provides a total (or cumulative) score, which is the product of multiplying the 13 pollution burden components by the 8 population characteristics. This total / cumulative score helps contextualize how multiple contaminants from multiple sources affect people, while taking into account their living conditions (e.g., nonchemical factors such as socioeconomic and health status). Communities that are within the top 25<sup>th</sup> percentile for total CalEnviroScreen scores are considered disadvantaged communities pursuant to SB 535 (OEHHA, 2021a and 2022).

According to the Office of Environmental Health Hazard Assessment (OEHHA) CalEnviroScreen 4.0 Map, the proposed Project is Census Tract 6065043279. This area shows an average pollution indicator percentile of 41% based on the CalEnviroScreen indicators (e.g., exposure, environmental effects,

population characteristics, socioeconomic factors) and has a population of 5,075 people (OEHHA, 2021b). The CalEnviroScreen data indicates approximately 41 in 10,000 people in the Project site's census tract visited an emergency facility for asthma-related health issues. This rate places the Project site's census tract in the 43<sup>rd</sup> percentile, meaning the asthma rate in this census tract is higher than 43% of the census tracts in the State (OEHHA 2021). Table 3-4 summarizes the CalEnviroScreen indicators for census tract 6065043279.

<b>Table 3-4: CalEnviroScreen Health Risk Information</b>	
<b>Indicator</b>	<b>Census Tract Indicator Values</b>
	<b>Tract 6065043279</b>
<i>Exposure Indicators</i>	
Air Quality: Ozone	80
Air Quality: PM <sub>2.5</sub>	46
Lead from Housing	38
Diesel Particulate Matter	14
Drinking Water Contamination	78
Pesticide Use	53
Toxic Releases from Facilities	72
Traffic Density	21
<i>Environmental Effect Indicators</i>	
Cleanup Sites	0
Groundwater Threats	0
Hazardous Waste Generators and Facilities	50
Impaired Water Bodies	0
Solid Waste Sites and Facilities	36
<i>Sensitive Population Indicators</i>	
Asthma	43
Cardiovascular Disease	14
Low Birth Weight Infants	93
<i>Socioeconomic Factor Indicators</i>	
Educational Attainment	40
Housing Burden	2
Linguistic Isolation	34
Poverty	59
Unemployment	23
<i>Cumulative Percentiles</i>	
Pollution Burden Percentile	41
Population Characteristics Percentile	36
<b>CalEnviroScreen Percentile (Total)</b>	<b>38</b>
<b>SB 535 Disadvantaged Community?</b>	<b>No</b>
<i>Source: OEHHA, 2021b and 2022</i>	

As shown in Table 3-4, census tract 6065043279 is not within the top 25% of total CalEnviroScreen percentiles throughout the State and, therefore, is not considered a disadvantaged community pursuant to SB 535.

### **3.2.4 EXISTING SITE OPERATIONS AND EMISSIONS ESTIMATES**

The existing single-family building at the site generates emissions from activities such as motor vehicle use, landscaping, and natural gas use. These emissions are anticipated to be relatively nominal and, therefore, have not been estimated.

## **3.3 FEDERAL, STATE, AND LOCAL AIR QUALITY REGULATIONS**

### **3.3.1 FEDERAL AIR QUALITY REGULATIONS**

#### **3.3.1.1 Federal Clean Air Act**

The Federal Clean Air Act (CAA) defines the U.S. EPA's responsibilities for protecting and improving the United States air quality and ozone layer. Key components of the CAA include reducing ambient concentrations of air pollutants that cause health and aesthetic problems, reducing emission of toxic air pollutants, and stopping production and use of chemicals that destroy the ozone.

Federal clean air laws require areas with unhealthy levels of ozone, inhalable particulate matter, Carbon monoxide, nitrogen dioxide, and sulfur dioxide to develop State Implementation Plans (SIPs); comprehensive documents that identify how an area will attain NAAQS. Deadlines for attainment were established in the 1990 amendments to the CAA based on the severity of an area's air pollution problem. Failure to meet air quality deadlines can result in sanctions against the State or the EPA taking over enforcement of the CAA in the affected area. SIPs are a compilation of new and previously submitted plans, programs, district rules, and State and Federal regulations. The SCAQMD implements the required provisions of an applicable SIP through its Air Quality Management Plan (AQMP). Currently, SCAQMD implements the 2012 Lead SIP for the Los Angeles County portion of Basin through the 2012 AQMP, and the 8-hr Ozone, 1-hr Ozone, 24-hr PM<sub>2.5</sub>, and annual PM<sub>2.5</sub> SIPs through the 2016 AQMP. The 2022 AQMP addresses the 2015 8-hour Ozone NAAQS and has been submitted to the EPA as part of California's SIP. The EPA's decision is currently pending.

### **3.3.2 STATE AIR QUALITY REGULATIONS**

#### **3.3.2.1 California Clean Air Act**

The California CAA of 1988 was enacted to develop plans and strategies for attaining the CAAQS. CARB, which is part of the California Environmental Protection Agency (Cal-EPA), develops statewide air quality regulations, including industry-specific limits on criteria, toxic, and nuisance pollutants. The California CAA is more stringent than Federal law in a number of ways including revised standards for PM<sub>10</sub> and ozone and state-specific standards for visibility reducing particles, sulfates, hydrogen sulfide, and vinyl chloride.

#### **3.3.2.2 In-Use Off-Road Diesel Equipment Program**

CARB's In-Use Off-Road Diesel Equipment regulation is intended to reduce emissions of NO<sub>x</sub> and PM from off-road diesel vehicles, including construction equipment, operating within California. The regulation imposes limits on idling; requires reporting equipment and engine information and labeling all

vehicles reported; restricts adding older vehicles to fleets; and requires fleets to reduce their emissions by retiring, replacing, or repowering older engines or installing exhaust retrofits for PM. The requirements and compliance dates of the off-road regulation vary by fleet size, and large fleets (fleets with more than 5,000 horsepower) must meet average targets or comply with Best Available Control Technology (BACT) requirements beginning in 2014. CARB has off-road anti-idling regulations affecting self-propelled diesel-fueled vehicles of 25 horsepower and up. The off-road anti-idling regulations limit idling on applicable equipment to no more than five minutes, unless exempted due to safety, operation, or maintenance requirements. In 2022, CARB approved amendments requiring the use of renewable diesel fuel starting January 1, 2024. Fleets comprised of Tier 4 Final equipment or zero-emission equipment are exempt from this requirement.

### **3.3.2.3 On-Road Heavy-Duty Vehicles (In-Use) Regulation**

CARB's In-Use Heavy-Duty Diesel-Fueled regulation (also known as the Truck and Bus Regulation) is intended to reduce emissions of NO<sub>x</sub>, PM, and other criteria pollutants generated from existing on-road diesel vehicles operating in California. The regulation applies to nearly all diesel-fueled trucks and buses with a gross vehicle weight rating (GVWR) greater than 14,000 pounds that are privately or federally owned, and for privately and publicly owned school buses. Heavier trucks and buses with a GVWR greater than 26,000 pounds must comply with a schedule by engine model year or owners can report to show compliance with more flexible options. Fleets complying with the heavier trucks and buses schedule must install the best available PM filter on 1996 model year and newer engines, and replace the vehicle 8 years later. Trucks with 1995 model year and older engines had to be replaced starting in 2015. Replacements with a 2010 model year or newer engine meet the final requirements, but owners can also replace the equipment with used trucks that have a future compliance date (as specified in regulation). Starting on January 1, 2023, all trucks and buses operating in California, with few exceptions, were required to have 2010 model year engines or newer.

## **3.3.3 REGIONAL AIR QUALITY REGULATIONS**

### **3.3.3.1 Southern California Association of Governments**

The Southern California Association of Governments (SCAG) is a Joint Powers Authority under California State Law, established as an association of local governments and agencies that voluntarily convene as a forum to address regional issues. SCAG encompasses the counties of Los Angeles, Orange, Ventura, Riverside, San Bernardino, and Imperial.

SCAG is designated as a Metropolitan Planning Organization (MPO) and as a Regional Transportation Planning Agency. Under SB 375, SCAG, as a designated MPO, is required to prepare a Sustainable Communities Strategy (SCS) as an integral part of its Regional Transportation Plan (RTP). On April 4, 2024, SCAG's Regional Council adopted Connect SoCal 2024, (2024 RTP/SCS) an update to Connect SoCal 2020 that planned development in the region through 2050. Demographic and economic growth projections, travel activity data, strategies, and control measures contained in the 2020 RTP/SCS forms the basis for the transportation control strategy portion of the AQMP and are utilized in the preparation of air quality forecasts and consistency analysis included in the AQMP.<sup>5</sup>

<sup>5</sup> It should be noted that although the 2024 RTP/SCS has been adopted, it is was the data in its predecessor, the 2020 RTP/SCS, that was used to prepare the current AQMP. It is anticipated that the growth projections in the 2024 RTP/SCS will be used when the AQMP is updated.

### 3.3.3.2 SCAQMD Air Quality Management Plan

The purpose of an AQMP is to bring an air basin into compliance with federal and state air quality standards and is a multi-tiered document that builds on previously adopted AQMPs. The 2016 AQMP for the Basin, which updated the 2012 AQMP, was approved by the SCAQMD Board of Directors on March 3, 2017. The 2016 AQMP provided new and revised demonstration's for how the SCAQMD, in coordination with Federal, State, Regional and Local Governments will bring the Basin back into attainment for the following NAAQS: 1997 8-hour Ozone; 1997 1-hour Ozone; 2008 8-hour Ozone; 2006 24-hour PM<sub>2.5</sub>; and 2012 Annual PM<sub>2.5</sub>.<sup>6</sup>

On December 2, 2022, the SCAQMD Governing Board adopted the 2022 AQMP, which focuses on bringing the South Coast Air Basin and the Salton Sea Air Basin into compliance with the 2015 8-hour ozone standard. The South Coast Air Basin, which is in extreme nonattainment, has an attainment year of 2037 for the 2015 8-hour ozone NAAQS. The 2022 AQMP includes growth projections developed by SCAG for the 2020 RTP/SCS that help inform emissions inventories. The 2022 AQMP plans to reduce NO<sub>x</sub> emissions to 60 tons per day, which is 67% below the current 2037 baseline, in order to meet this standard. The 2022 AQMP notes that widespread adoption of zero emission technologies across all sectors and a combination of local, state, and federal action will be required to achieve the projected NO<sub>x</sub> reductions.

The SCAQMD proposes incentive programs and 49 control measures that, with state and federal control measures, can achieve the required NO<sub>x</sub> reductions. SCAQMD's incentive programs would focus on promoting deployment of existing zero emission and low NO<sub>x</sub> technology and on developing new zero emission and ultra-low NO<sub>x</sub> technologies. SCAQMD's control measures consist of 30 measures that target stationary sources and 18 that target mobile sources. The 2022 AQMP includes stationary source measures that seek to reduce NO<sub>x</sub> from residential combustion sources, commercial combustion sources, and large combustion sources, as further described below.

- Residential control measures focus on reducing NO<sub>x</sub> by replacing appliances and devices (e.g., for heating and cooking) with zero emission and low-NO<sub>x</sub> appliances.
- Commercial control measures are identified reduce NO<sub>x</sub> from commercial appliances, cooking devices, and small internal combustion engines and commercial combustion equipment.
- Large combustion control measures have been included reduce NO<sub>x</sub> from sources including boilers, engines, and facilities.

In addition, the 2022 AQMP includes stationary source measures to reduce VOC, including reducing leaks and providing incentive funding for the adoption of low-VOC technology. The 2022 AQMP also includes co-benefit measures that quantify the reduction in criteria air pollutants from energy and climate change measures. Other stationary source measures (e.g., education and outreach) seek to reduce all criteria pollutants.

Finally, the 2022 AQMP includes mobile source control measures grouped into the following categories:

- Emission growth management, which mitigate emissions from new or redevelopment projects.
- Facility based, which focus on mobile sources at port, railyards, and intermodal facilities.

---

<sup>6</sup> Although the 2006 24-hour PM<sub>2.5</sub> standard was focused on in the 2012 AQMP, it has since been determined, primarily due to unexpected drought conditions, that it is impractical to meet the standard by the original attainment year. Since adoption of the 2012 AQMP, the U.S. EPA approved a re-classification to "serious" non-attainment for the standard, which requires a new attainment demonstration and deadline.

- On-road and off-road mobile sources, which focus on vehicles and equipment used during construction and operation at industrial sites.
- Incentives, for early deployment of cleaner technology.
- Other measures (e.g., infrastructure planning).

### 3.3.3.3 SCAQMD Rule Book

In order to control air pollution in the Basin, the SCAQMD adopts rules that establish permissible air pollutant emissions and governs a variety of businesses, processes, operations, and products to implement the AQMP and the various federal and state air quality requirements. SCAQMD does not adopt rules for mobile sources; those are established by CARB or the U.S. EPA. In general, the SCAQMD rules that are anticipated to be applicable to the development of the proposed Project, include:

- **Rule 401 (Visible Emissions)** prohibits discharge into the atmosphere from any single source of emission for any contaminant for a period or periods aggregating more than three minutes in any one hour that is as dark or darker in shade than that designated as No. 1 on the Ringelmann Chart, as published by the U.S. Bureau of Mines.
- **Rule 402 (Nuisance)** prohibits discharges of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.
- **Rule 403 (Fugitive Dust)** prohibits emissions of fugitive dust from any active operation (e.g. demolition or grading), storage pile, or other disturbed surface area if it crosses the project property line or if emissions caused by vehicle movement cause substantial impairment of visibility (defined as exceeding 20 percent capacity in the air). Rule 403 requires the implementation of Best Available Control Measures and includes additional provisions for projects disturbing more than five acres and those disturbing more than fifty acres.
- **Rule 481 (Spray Coating Operations)** imposes equipment and operational restrictions during construction for all spray painting and spray coating operations.
- **Rule 1108 (Cutback Asphalt)** prohibits the sale or use of any cutback asphalt containing more than 0.5 percent by volume organic compounds that evaporate at 260°C (500°F) or lower.
- **Rule 1113 (Architectural Coatings)** establishes maximum concentrations of VOCs in paints and other applications and establishes the thresholds for low-VOC coatings.
- **Rule 1143 (Consumer Paint Thinners and Multi-Purpose Solvents)** prohibits the supply, sale, manufacture, blend, package or repackage of any consumer paint thinner or multi-purpose solvent for use in the SCAQMD unless consumer paint thinners or other multi-purpose solvents comply with applicable VOC content limits.

### 3.3.4 CITY OF MENIFEE

#### 3.3.4.1 General Plan

The City of Menifee adopted its General Plan in 2013. The Open Space and Conservation Element of the 2013 General Plan contains the following air quality policies that may be applicable to the Project.

**Goal OSC-9:** Reduced impacts to air quality at the local level by minimizing pollution and particulate matter.

- **Policy OSC-9.1:** Meet state and federal clean air standards by minimizing particulate matter emissions from construction activities.
- **Policy OSC-9.2:** Buffer sensitive land uses, such as residences, schools, care facilities, and recreation areas from major air pollutant emission sources, including freeways, manufacturing, hazardous materials storage, wastewater treatment, and similar uses.
- **Policy OSC-9.3:** Comply with regional, state, and federal standards and programs for control of all airborne pollutants and noxious odors, regardless of source.
- **Policy OSC-9.4:** Support the Riverside County Regional Air Quality Task Force, the Southern California Association of Government's Regional Transportation Plan/Sustainable Communities Strategy, and the South Coast Air Quality Management District's Air Quality Management Plan to reduce air pollution at the regional level.
- **Policy OSC-9.5:** Comply with the mandatory requirements of Title 24 Part 1 of the California Building Standards Code (CALGreen) and Title 24 Part 6 Building and Energy Efficiency Standards.

### 3.3.4.2 Municipal Code

Menifee Municipal Code Title 8, Buildings and Construction, Section 8.01.010 limits construction that occurs within a quarter of a mile of an occupied residence to 6:30 AM through 7:00 PM on Mondays through Saturdays. Construction shall not occur on federal holidays. Section 9.210.060C(2) (Construction-Related Exemptions) allows for private construction projects within a quarter mile of an occupied residence that comply with these limits.

### 3.3.4.3 Industrial Good Neighbor Policy

Appendix A of the City's Design Guidelines, known as the "Industrial Good Neighbor Policies", were adopted April 15, 2020, and amended March 2, 2022. The Industrial Good Neighbor Policies establish requirements for new warehouses and logistics and distribution facilities that include any building larger than 100,000 square feet in size or any building with more than 10 loading bays (dock-high). These items include:

- 1) General Performance Standards
- 2) Site Design, Access, and Layout Requirements
- 3) Signage and Information Requirements
- 4) Environmental Considerations

Specifically, with regard to line item 4 (Environmental Considerations), the Industrial Good Neighbor Policies set forth specific requirements for air quality and noise. With regard to air quality, the policy requirements are that:

- Project evaluate project- and cumulative impacts in accordance with the latest models and guidance available from the SCAQMD.
- Health Risk Assessments be prepared for industrial uses within 1,000 feet of sensitive receptors.
- Minimize the potential for truck queuing to occur and locate queuing areas away from sensitive receptors.

- Install electrical hookups to eliminate idling of main and auxiliary engines during loading and unloading of cargo and when trucks are not in use and required where transport refrigeration units (TRUs) are proposed to be used.
- Require transportation demand management measures for industrial uses with over 100 employees.
- Use electric equipment for on-site operations, when feasible.
- For buildings with 50 or more dock high doors, site plans are required to identify a planned location for future electric truck charging stations and install conduit to that location. A ratio of one charging station is required for every 50 dock high doors.
- Undertake construction activities in an environmentally responsible manner, including:
  - Use of most readily available (CARB Tier III, Tier IV Interim, and Tier IV Compliant) equipment.
  - Establish a designated charging area for electric equipment.
  - Establish a maximum daily disturbance area as part of an Air Quality Study.
  - Sweep streets adjacent to the site on a regular basis.
  - Record keeping requirements for equipment used on site and other measures needed to demonstrate compliance with the items listed above.

*This page intentionally left blank.*

## 4 AIR QUALITY IMPACT AND HEALTH RISK ANALYSIS

This chapter evaluates the direct and indirect air quality impacts that could result from implementation of the proposed Project.

### 4.1 THRESHOLDS OF SIGNIFICANCE

In accordance with Appendix G of the State CEQA Guidelines, the proposed Project could result in potentially significant impacts related to air quality if it would:

- Conflict with or obstruct implementation of the applicable SCAQMD 2022 AQMP;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the South Coast Air Basin is designated non-attainment under an applicable federal or state ambient air quality standard;
- Expose sensitive receptors to substantial pollutant concentrations; or
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

#### 4.1.1 REGIONAL AND TOXIC AIR CONTAMINANT SIGNIFICANCE THRESHOLDS

Consistent with the guidance contained in Appendix G of the State CEQA Guidelines, this Report relies upon SCAQMD-recommended methods and pollutant thresholds to evaluate whether the proposed Project's emissions would violate any air quality standard, contribute substantially to an existing or projected air quality violation, result in a cumulatively considerable net increase in nonattainment criteria air pollutants, or expose sensitive receptors to substantial pollutant concentrations. The SCAQMD's recommended thresholds of significance for criteria pollutants and incremental increases in health risk are shown in Table 4-1.

Pollutant	Maximum Daily Emissions (lbs/day)	
	Construction	Operation
NO <sub>x</sub>	100	55
VOC/ROG	75	55
PM <sub>10</sub>	150	150
PM <sub>2.5</sub>	55	55
SO <sub>x</sub>	150	150
CO	550	550
Lead	3	3
TACs	Maximum Incremental Cancer Risk ≥ 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas ≥ 1 in 1 million) Chronic & Acute Hazard Index ≥ 1.0 (project increment)	

Source: SCAQMD, 2019b

#### 4.1.2 LOCALIZED SIGNIFICANCE THRESHOLDS

In addition to establishing thresholds of significance for emissions of criteria air pollutants on a regional level, the SCAQMD has also developed Localized Significance Thresholds (LSTs) that represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable Federal or State ambient air quality standards, which would result in significant adverse localized air quality effects. The LST methodology takes into account a number of factors, including (1) existing ambient air quality in each SRA; (2) how many acres the project would disturb; and (3) how far project construction and operational activities would take place from the nearest sensitive receptor. Unlike the regional emission significance thresholds, LSTs have only been developed for NO<sub>x</sub>, CO, PM<sub>10</sub> and PM<sub>2.5</sub>.

This Report evaluates the proposed Project's potential to expose sensitive receptors to substantial pollutant concentrations pursuant to the SCAQMD Final Localized Significance Thresholds Methodology. This methodology provides screening tables for one through five-acre project scenarios. The construction and operational LSTs for one-acre, two-acre, and five-acre sites in SRA 24 (Perris Valley), the SRA in which the project is located, are shown in Table 4-2.

<b>Table 4-2: SCAQMD Localized Significance Thresholds for Source Receptor Area 24</b>					
<b>Pollutant Monitored</b>	<b>Maximum Allowable Emissions (Pounds per Day) as a Function of Receptor Distance (in Meters) from Site Boundary</b>				
	<b>25 Meters</b>	<b>50 Meters</b>	<b>100 Meters</b>	<b>200 Meters</b>	<b>500 Meters</b>
<b>ONE-ACRE SITE</b>					
<i>Construction Thresholds</i>					
Nitrogen Oxides (NO <sub>x</sub> )	118	148	212	335	652
Carbon Monoxide (CO)	602	887	1,746	4,359	17,640
Particulate Matter (PM <sub>10</sub> )	4	12	30	67	478
Particulate Matter (PM <sub>2.5</sub> )	3	4	8	20	86
<b>Pollutant Monitored</b>	<b>Maximum Allowable Emissions (Pounds per Day) as a Function of Receptor Distance (in Feet) from Site Boundary</b>				
	<b>25 Meters</b>	<b>50 Meters</b>	<b>100 Meters</b>	<b>200 Meters</b>	<b>500 Meters</b>
<b>ONE-ACRE SITE</b>					
<i>Operational Thresholds</i>					
Nitrogen Oxides (NO <sub>x</sub> )	118	148	212	335	652
Carbon Monoxide (CO)	602	887	1,746	4,359	17,640
Particulate Matter (PM <sub>10</sub> )	1	3	8	17	43
Particulate Matter (PM <sub>2.5</sub> )	1	1	2	5	21
<b>TWO-ACRE SITE</b>					
<i>Construction Thresholds</i>					
Nitrogen Oxides (NO <sub>x</sub> )	170	200	264	378	684
Carbon Monoxide (CO)	883	1,262	2,232	5,136	18,947
Particulate Matter (PM <sub>10</sub> )	7	20	38	75	186
Particulate Matter (PM <sub>2.5</sub> )	4	6	10	23	91
<i>Operational Thresholds</i>					
Nitrogen Oxides (NO <sub>x</sub> )	170	200	264	378	684

<b>Table 4-2: SCAQMD Localized Significance Thresholds for Source Receptor Area 24</b>					
<b>Pollutant Monitored</b>	<b>Maximum Allowable Emissions (Pounds per Day) as a Function of Receptor Distance (in Meters) from Site Boundary</b>				
	<b>25 Meters</b>	<b>50 Meters</b>	<b>100 Meters</b>	<b>200 Meters</b>	<b>500 Meters</b>
Carbon Monoxide (CO)	883	1,262	2,232	5,136	18,947
Particulate Matter (PM <sub>10</sub> )	2	5	10	18	45
Particulate Matter (PM <sub>2.5</sub> )	1	2	3	6	22
<b>FIVE-ACRE SITE</b>					
<i>Construction Thresholds</i>					
Nitrogen Oxides (NO <sub>x</sub> )	270	302	378	488	780
Carbon Monoxide (CO)	1,577	2,178	3,437	6,860	22,530
Particulate Matter (PM <sub>10</sub> )	13	40	59	96	207
Particulate Matter (PM <sub>2.5</sub> )	8	10	16	31	105
<i>Operational Thresholds</i>					
Nitrogen Oxides (NO <sub>x</sub> )	270	302	378	488	780
Carbon Monoxide (CO)	1,577	2,178	3,437	6,860	22,530
Particulate Matter (PM <sub>10</sub> )	4	10	14	23	50
Particulate Matter (PM <sub>2.5</sub> )	2	3	4	8	26
Source: SCAQMD 2008a, modified by MIG 2024					
Note: The localized thresholds for NO <sub>x</sub> in this table account for the conversion of NO to NO <sub>2</sub> . The emission thresholds are based on NO <sub>2</sub> levels, as this is the compound associated with adverse health effects.					

#### 4.1.3 CARBON MONOXIDE “HOT SPOT” THRESHOLDS

The Project would pose the potential for a CO hotspot if it would exceed the 1-hour State [20 ppm], 1-hour Federal [35 ppm], and/or State and Federal 8-hour [9 ppm] ambient air quality standards for CO.

## 4.2 ANALYSIS METHODOLOGY

Construction and operational emissions associated with buildout of the Project were calculated using CalEEMod and emission factors derived from CARB databases. The following summarizes the specific sources, and methodologies employed to estimate emissions.

### 4.2.1 MASS-BASED CRITERIA AIR POLLUTANT AND CONSTRUCTION TAC EMISSIONS

#### 4.2.1.1 Construction Emissions

Construction of the proposed Project would generate equipment exhaust and dust emissions from the use of heavy-duty off-road equipment during demolition, site preparation, grading, building construction, paving, and architectural coating activities, as well as worker and vendor vehicle trips. The proposed Project's potential construction emissions were modeled using CalEEMod, Version 2022.1. The Project's construction activities, duration, and typical equipment used during construction are shown in Table 2-2; construction phases would not overlap. The construction phases, duration, and the type and amount of equipment used during construction was generated using CalEEMod default assumptions, and modified to reflect the following Project-specific characteristics:

- **Land Use Development:** The acreage and square footage of the business park and parking land uses were modeled to reflect project conditions. The parking lot was modeled as a larger area than the Project's approximate 667 parking spaces to account for all paved surfaces such as driveways and to include landscaped area.
- **Demolition and Soil Hauling:** The model was modified to include 3,000 square feet of building demolition for the removal of the single-family residence. The model was also updated to reflect the export of 2,000 cubic yards of soil during the grading phase.
- **Rule 403 Fugitive Dust Abatement:** The model was updated to reflect compliance with the watering requirements of SCAQMD Rule 403 during construction activities.

#### 4.2.1.2 Operational Emissions

Once operational, the proposed Project would generate emission from the following sources:

- **Small "area" sources** including landscaping equipment and the use of consumer products such as paints, cleaners, and fertilizers that result in the evaporation of chemicals to the atmosphere during product use.
- **Energy use** in the form of natural gas combustion for building water and space heating needs.
- **Mobile sources** including trips made to and from the site by new employees and truck trips.

Similar to construction emissions, criteria air pollutant emissions from operational activities were estimated in CalEEMod, Version 2022.1 based on default model assumptions, with the following modifications made to reflect Project-specific characteristics:

- **Mobile Sources:**
  - **Trip Generation Rates:** The default weekday and weekend trip generation rate for the proposed land use were updated to reflect the trip generation rate (i.e., 1,751 trips per day) provided in the Trip Generation Assessment prepared for the Project (Ganddini 2024; see Table 2-1 **Error! Reference source not found.**).
  - **Trip Type and Distance:** Passenger vehicle trips (approximately 87.8% of all trips) used a trip distance of 30.7 miles per trip, based on the Western Riverside Council of Government's VMT Screening Tool, as included in the Project's Traffic Scoping Agreement (Ganddini 2024). A weighted trip distance was developed for truck trips (12.2% of all trips) based on trip lengths of 15.3, 14.2, and 39.9 miles per trip for 2-, 3-, and 4-axle truck trips respectively (SCAQMD 2021d). The weighted truck trip distance for this Project is approximately 31.8 miles per trip, based on the Project's truck trip generation identified in the Project's Traffic Scoping Agreement and modifications made to account for trip generation associated with the portion of the site assumed to have trip generation characteristics similar to the "Business Park" land use in the Institute of Transportation Engineers (ITE) Trip Generation Handbook (Ganddini, 2024; see Table 2-1)
  - **Vehicle Mix:** The default vehicle mix was updated to match the trip types identified in the Project's Trip Generation Assessment:
    - **Passenger Vehicles** were assumed to be a blend of light duty auto (LDA), light duty truck (LDT), medium duty vehicles (MDV), and motorcycles (MCY). The percent of these vehicle types utilized for the proposed Project are based on CalEEMod defaults and averaged to reflect the number of passenger vehicle trips generated by the proposed Project (87.8% of all Project trips).

- **Trucks** were assumed to be a blend of Light-Heavy Duty (LHD) trucks (2-axle), Medium-Heavy Duty (MHD) trucks (3-axle), and Heavy-Heavy Duty (HHD) Trucks. The specific percent assigned to each vehicle category is based on the breakdown provided in the Trip Generation Assessment (12.2% of all Project trips, see Table 2-1).

#### 4.2.2 CONSTRUCTION EXHAUST PM<sub>10</sub> MODELING METHODOLOGY

Construction activities associated with the proposed Project would generate on- and off-site exhaust emissions, including DPM, in the form of PM<sub>10</sub>. The specific quantity of emissions emitted at any given time would be dependent on the type and number of pieces of equipment operating, the equipment's engine classification, the equipment's horsepower, and the load the engine is under. Off-site emissions would be generated from vendor trucks used to deliver materials to the site.

The U.S. EPA's American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) dispersion model (version 23132) was used to predict pollutant concentrations at existing sensitive receptors near the Project site. The AERMOD dispersion model is a U.S. EPA-approved and SCAQMD-recommended model for simulating the dispersion of pollutant emissions and estimating ground level concentrations of pollutants at specified receptor locations. AERMOD requires the user to input information on the source(s) of pollutants being modeled, the receptors where pollutant concentrations are modeled, and the meteorology, terrain, and other factors that affect the potential dispersion of pollutants. These variables are described below.

##### 4.2.2.1 Modeled Construction Sources / Emission Rates

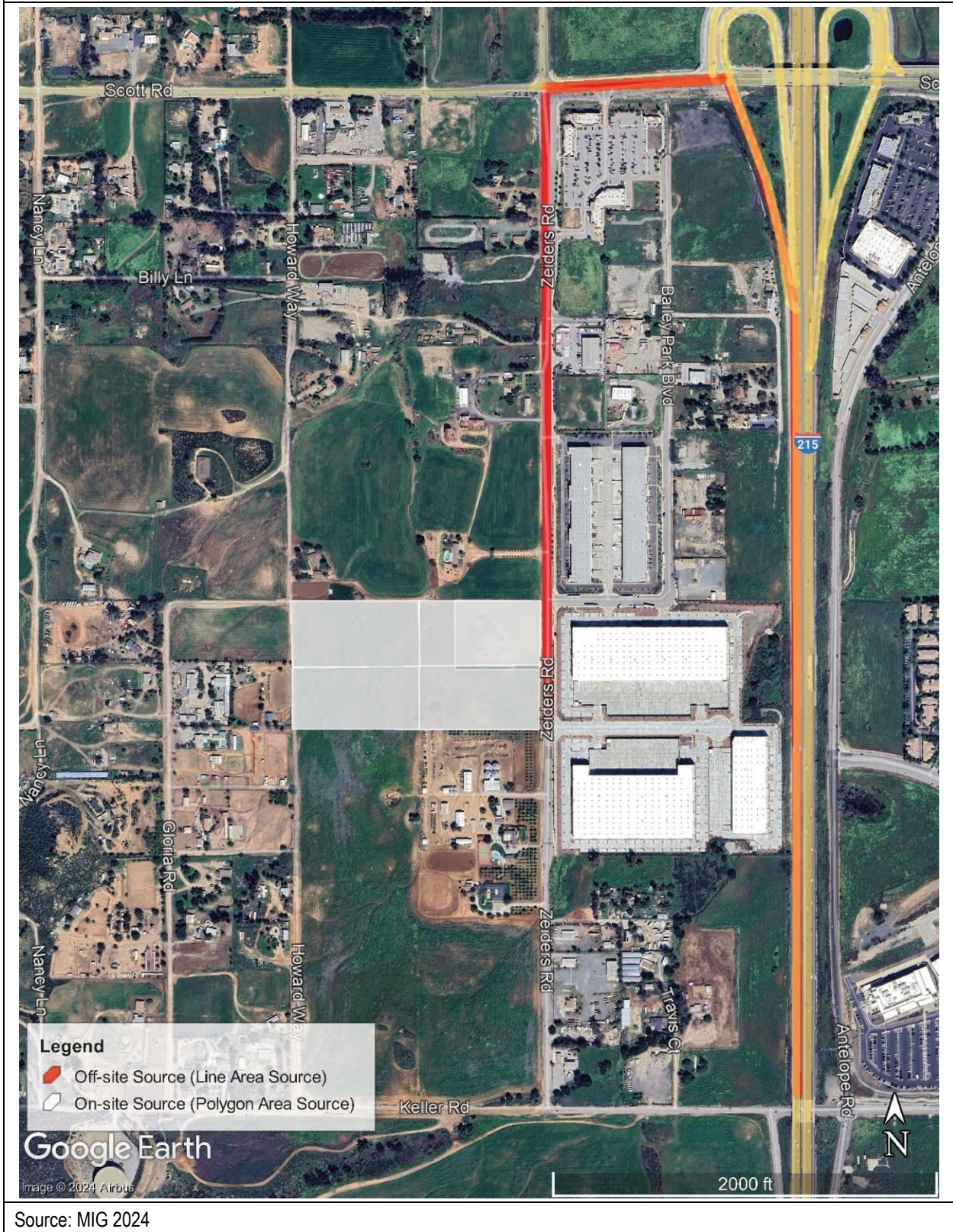
On- and off-site construction emissions were modeled as a series of area and line area sources, respectively, as shown in Table 4-3 and depicted in Figure 4-1. As a conservative approach, PM<sub>10</sub> construction exhaust emissions were presumed to be 100 percent DPM. An emissions rate for each source listed in Table 4-3 was derived from the CalEEMod emissions estimates presented in Table 4-13. The annual PM<sub>10</sub> exhaust emissions generated during construction of the proposed Project were converted to an average emission rate in terms of grams / second per hour of construction activity.

On-site DPM emissions from construction were modeled as a series of five area sources for Year 1 and four area sources for Year 2. With the exception of demolition activities (included in Year 1), annual construction DPM emissions were divided approximately evenly between four sources. The area sources were assigned a release height of five (5) meters; this elevated source height reflects the height of the equipment exhaust pipes, plus an additional distance for the height of the exhaust plume above the exhaust pipes to account for the plume rise of the exhaust gases (SCAQMD 2008b).

Off-site DPM emissions from vehicles were modeled as line area sources. All inbound and outbound construction hauling and vendor trips were assumed to travel along Zeiders Road and Scott Road from I-215. The release height for the line area sources was set to 4.12 meters, the approximate height of a truck exhaust.

<b>Table 4-3. AERMOD Source Parameters and Emission Rates</b>					
ID	Description	UTM Coordinates <sup>(A)</sup>		Size (m <sup>2</sup> )	Emission Rate (g/s)
		X	Y		
PAREA01	Year 1 On-site: Demolition	483570.85	3721620.95	14,728.2	8.11E-04
PAREA02	Year 1 On-site: Northwest Corner	483311.87	3721620.63	21,013.5	9.48E-04
PAREA03	Year 1 On-site: Northeast Corner	483513.80	3721620.63	19,543.3	1.09E-03
PAREA04	Year 1 On-site: Southwest Corner	483314.41	3721515.23	19,623.2	1.10E-03
PAREA05	Year 1 On-site: Southeast Corner	483514.89	3721518.20	19,129.1	1.23E-03
PAREA06	Year 1 On-site: Northwest Corner	483311.87	3721620.63	21,013.5	9.46E-05
PAREA07	Year 1 On-site: Northeast Corner	483513.80	3721620.63	19,543.3	1.11E-04
PAREA08	Year 1 On-site: Southwest Corner	483314.41	3721515.23	19,623.2	1.27E-04
PAREA09	Year 1 On-site: Southeast Corner	483514.89	3721518.20	19,129.1	1.29E-04
ARLN01	Year 1 Off-site	483716.89	3721514.96	2,832.1 <sup>(B)</sup>	2.65E-06
ARLN02	Year 2 Off-site	483716.89	3721514.96	2,832.1 <sup>(B)</sup>	1.79E-06
Source: MIG 2024 (see Appendix B)					
(A) UTM coordinates represent the northwest corner of the source.					
(B) Reflects length of line area source in meters.					

Figure 4-1: Modeled Construction Emissions Sources



Source: MIG 2024

#### 4.2.2.2 Meteorological Data Inputs

AERMOD requires meteorological data as an input into the model. The meteorological data is processed using AERMET, a pre-processor to AERMOD. AERMET requires surface meteorological data, upper air meteorological data, and surface parameter data such as albedo (reflectivity) and surface roughness. For the proposed Project, pre-processed surface data from the SCAQMD was obtained from the Perris SCAQMD Meteorological Station (see Figure 3-1). Five complete years of meteorological data from January 1, 2010, to December 31, 2011, and from January 1, 2014, to December 31, 2016, were utilized. Emissions from construction activities were presumed to be generated 12 hours a day, consistent with Menifee noise requirements.<sup>7</sup>

#### 4.2.2.3 Terrain Inputs

Terrain was incorporated by using AERMAP (an AERMOD pre-processor) to import the elevation of the Project site using data from the National Elevation Dataset (NED) with a resolution of 1/3 arcsecond.

#### 4.2.2.4 Modeled Receptors

The following actions were performed to model receptors for the Project:

- A 1,000 meter by 1,000 meter grid with a receptor spacing of 100 meters was generated over land uses to the north, east, south, and west of the Project site. The grid's center coordinates were 483510.00 meters Easting and 3721509.00 meters Northing. This grid was then converted to discrete Cartesian receptors, yielding a total of 121 receptors.
- Six (6) discrete Cartesian receptors were added to the model manually, on receptor houses in proximity of the Project site.

A plant blanking boundary was added to the model, and six receptors were removed from the interior of the Project site. Based on the above, a total of 121 discrete receptors were modeled for the Project.

### 4.2.3 OPERATIONAL EXHAUST PM<sub>10</sub> MODELING METHODOLOGY

The proposed Project would result in on- and off-site truck travel and on-site diesel-truck idling activities that would emit DPM. Emissions associated with these operational activities were derived from CARB's Emission Factors model (EMFAC2021, V1.0.2). The EMFAC emissions database combines aggregate emissions for multiple model years as a repository for emission rates estimated through the year 2050.

#### 4.2.3.1 Modeled Sources / Emissions Rates

The proposed Project's operational DPM emissions would primarily be diesel truck traffic; the proposed Project does not involve the use of outdoor, diesel-powered yard/cargo handling equipment. Any such equipment would be required to comply with the City's Industrial Good Neighbor Policy, which would require them to be electric. The Project's trip generation, as shown in Table 2-1, provides the breakdown of the truck trip types associated with operation of the proposed Project. For the purposes of estimating emissions for the dispersion modeling, truck trips were assumed to consist of light heavy-duty trucks

<sup>7</sup> As identified in Section 3.3.4.2, the City of Menifee generally limits construction to the hours of 6:30 AM to 7:00 PM. AERMOD cannot take half hour increments into its variable emissions profile parameters; therefore, the modeling accounts for construction occurring between the hours of 7:00 AM and 7:00 PM.

(LHDT1/2, consisting of 2-axle trucks), medium heavy-duty trucks (MHDT, consisting of 3-axle trucks), and heavy-heavy duty trucks (HHDT, consisting of 4-axle trucks). Off-site truck travel DPM emissions and on-site truck travel and idling emissions were estimated using EMFAC2021 (V1.0.2) and Project-specific truck travel and idling activities. LHDT1/2, MHDT, and HHDT running and idling PM<sub>10</sub> emission factors for Year 2026 (the Project's first estimated year of operation) were generated using EMFAC2021. In actuality, emissions will decrease in the future due to regular vehicle turnover and improvements in emissions technologies. If construction and operation of the proposed Project were to be delayed, the emissions factors included in this Report would provide a worst-case scenario, as emissions rates improve (i.e., decrease) as newer, cleaner, and more efficient model years become available. EMFAC2021 was run at 10 and 45 miles per hour (MPH) using an aggregate of model years to generate the emissions factors for on-site and off-site truck travel, respectively. Similarly, truck idling emission rates were also aggregated over multiple model years. The EMFAC-generated emission factors were then weighted by the truck trip percentages identified in the Traffic Scoping Agreement prepared for the Project to yield a single, weighted average composite emission factor for on-site truck travel, on-site truck idling, and off-site truck travel. The composite emission factors used to estimate the proposed Project's DPM emissions are shown in Table 4-4.

<b>Truck Type</b>	<b>Project Truck Traffic (%)</b>	<b>Idling Rate (grams/vehicle-day)</b>	<b>10 MPH Rate (grams/mile)</b>	<b>45 MPH Rate (grams/mile)</b>
LHDT1	14.8%	0.0273	0.0773	0.0226
LHDT2	6.7%	0.0274	0.0720	0.0217
MHDT	10.7%	0.0164	0.0228	0.0062
HHDT	67.8%	0.0279	0.0107	0.0128
<b>Composite Factor</b>	<b>100.0%</b>	<b>0.0265</b>	<b>0.0260</b>	<b>0.0141</b>

*Source: Ganddini 2022, EMFAC2021*

As shown in Table 4-4, 10 and 45 MPH running emission factors for truck travel are presented in terms of grams / mile of truck travel. Running emission factors were multiplied by the total travel distance associated with each truck trip passing through the modeled source (based on the truck trip distribution percentages contained in the Traffic Scoping Agreement prepared for the Project). The composite emission factor for idling trucks is presented in terms of grams/vehicle-day. Although state law limits idling to five minutes per location, total idling emission were estimated presuming 15 minutes of total on-site idling time per truck.

The distribution of truck trips and truck idling used to estimate the proposed Project's DPM emissions is shown in Table 4-5. The estimated values for truck trips and truck idling are based on 214 Project truck trips (see Table 2-1) over 17 hours, resulting in an average hourly rate of 12.59 trips, with 6.29 trips/hour inbound and 6.29 trips/hour outbound. These trips were assigned to a series of volume sources for on-site truck travel and a series of point sources for idling at the docks (See Figure 4-2 or Table 4-8 for the locations of the volume and point sources).

The total activity, annual DPM emissions, and average DPM emission rate (in grams/second) for each on- and off-site source are summarized in Table 4-6 and Table 4-7.

Truck Distribution	Truck Trip Distribution % <sup>(A)</sup>	Total Truck Trips / Hour <sup>(B)</sup>	Total Idling Trucks / Hour
<b>On-Site Truck Travel</b>			
Building A: 2 Docks	9.1%	0.57	0.29
Building B: 2 Docks	9.1%	0.57	0.29
Building C: 2 Docks	9.1%	0.57	0.29
Building D: 2 Docks	9.1%	0.57	0.29
Building E: 2 Docks	9.1%	0.57	0.29
Building F: 2 Docks	9.1%	0.57	0.29
Building G: 2 Docks	9.1%	0.57	0.29
Building H: 2 Docks	9.1%	0.57	0.29
Building I: 2 Docks	9.1%	0.57	0.29
Building J: 2 Docks	9.1%	0.57	0.29
Building K: 2 Docks	9.1%	0.57	0.29
<b>Off-Site truck Travel<sup>(C)</sup></b>			
Zeiders Road, Scott Road, and I-215	100%	12.59	--
(A) Truck trip distribution percentages may not total 100% due to rounding.			
(B) Total truck trips/hour may not sum to the total hourly rate due to rounding.			
(C) All truck trips are assumed to enter the facility via the southern driveway.			

Description (Source ID)	Annual Trucks Idling	Total Annual Idle-Hours	DPM (Annual Grams)	DPM (g/s)
Building A: 1 <sup>st</sup> Dock	1,775	444	11.77	5.271E-07
Building A: 2 <sup>nd</sup> Dock	1,775	444	11.77	5.271E-07
Building B: 1 <sup>st</sup> Dock	1,775	444	11.77	5.271E-07
Building B: 2 <sup>nd</sup> Dock	1,775	444	11.77	5.271E-07
Building C: 1 <sup>st</sup> Dock	1,775	444	11.77	5.271E-07
Building C: 2 <sup>nd</sup> Dock	1,775	444	11.77	5.271E-07
Building D: 1 <sup>st</sup> Dock	1,775	444	11.77	5.271E-07
Building D: 2 <sup>nd</sup> Dock	1,775	444	11.77	5.271E-07
Building E: 1 <sup>st</sup> Dock	1,775	444	11.77	5.271E-07
Building E: 2 <sup>nd</sup> Dock	1,775	444	11.77	5.271E-07
Building F: 1 <sup>st</sup> Dock	1,775	444	11.77	5.271E-07
Building F: 2 <sup>nd</sup> Dock	1,775	444	11.77	5.271E-07
Building G: 1 <sup>st</sup> Dock	1,775	444	11.77	5.271E-07
Building G: 2 <sup>nd</sup> Dock	1,775	444	11.77	5.271E-07
Building H: 1 <sup>st</sup> Dock	1,775	444	11.77	5.271E-07
Building H: 2 <sup>nd</sup> Dock	1,775	444	11.77	5.271E-07
Building I: 1 <sup>st</sup> Dock	1,775	444	11.77	5.271E-07
Building I: 2 <sup>nd</sup> Dock	1,775	444	11.77	5.271E-07
Building J: 1 <sup>st</sup> Dock	1,775	444	11.77	5.271E-07
Building J: 2 <sup>nd</sup> Dock	1,775	444	11.77	5.271E-07

**Table 4-6: On-Site Idling Source Activity, Annual Emissions, and Emissions Rate**

Description (Source ID)	Annual Trucks Idling	Total Annual Idle-Hours	DPM (Annual Grams)	DPM (g/s)
Building K: 1 <sup>st</sup> Dock	1,775	444	11.77	5.271E-07
Building K: 2 <sup>nd</sup> Dock	1,775	444	11.77	5.271E-07

**Table 4-7: Truck Travel Source Activity, Annual Emissions, and Emissions Rate**

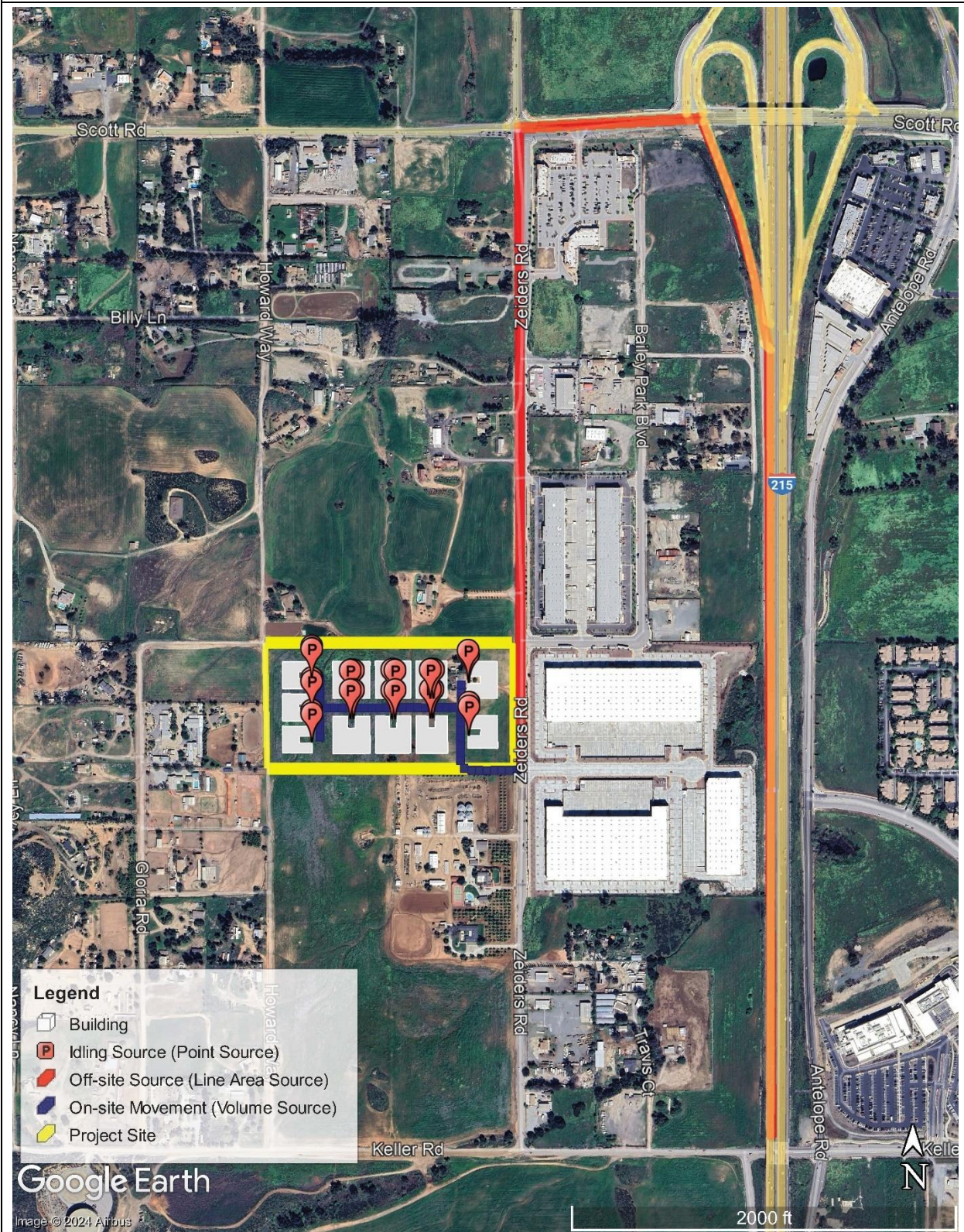
Description (Source ID)	Annual Truck Trips	Miles Per Trip	Total Annual VMT	DPM (Annual Grams)	DPM (Grams/Second) <sup>(A)</sup>
On-Site Truck Travel (Drive Aisles)					
Drive_Entry-Isle_1	78,110	0.007	583	1.515E+01	6.780E-07
Drive_Entry-Isle_2	78,110	0.007	583	1.515E+01	6.780E-07
Drive_Entry-Isle_3	78,110	0.007	583	1.515E+01	6.780E-07
Drive_Entry-Isle_4	78,110	0.007	583	1.515E+01	6.780E-07
Drive_Entry-Isle_5	78,110	0.007	583	1.515E+01	6.780E-07
Drive_Entry-Isle_6	78,110	0.007	583	1.515E+01	6.780E-07
Drive_Entry-Isle_7	78,110	0.007	583	1.515E+01	6.780E-07
Drive_Entry-Isle_8	78,110	0.007	583	1.515E+01	6.780E-07
Drive_Entry-Isle_9	78,110	0.007	583	1.515E+01	6.780E-07
Drive_Entry-Isle_10	78,110	0.007	583	1.515E+01	6.780E-07
Drive_Entry-Isle_11	78,110	0.007	583	1.515E+01	6.780E-07
Drive_Entry-Isle_12	78,110	0.007	583	1.515E+01	6.780E-07
Drive_Main-Isle_1	71,009	0.007	530	1.377E+01	6.164E-07
Drive_Main-Isle_2	71,009	0.007	530	1.377E+01	6.164E-07
Drive_Main-Isle_3	71,009	0.007	530	1.377E+01	6.164E-07
Drive_Main-Isle_4	71,009	0.007	530	1.377E+01	6.164E-07
Drive_Main-Isle_5	63,908	0.007	477	1.239E+01	5.548E-07
Drive_Main-Isle_6	63,908	0.007	477	1.239E+01	5.548E-07
Drive_Main-Isle_7	63,908	0.007	477	1.239E+01	5.548E-07
Drive_Main-Isle_8	63,908	0.007	477	1.239E+01	5.548E-07
Drive_Main-Isle_9	49,706	0.007	371	9.638E+00	4.315E-07
Drive_Main-Isle_10	49,706	0.007	371	9.638E+00	4.315E-07
Drive_Main-Isle_11	49,706	0.007	371	9.638E+00	4.315E-07
Drive_Main-Isle_12	49,706	0.007	371	9.638E+00	4.315E-07
Drive_Main-Isle_13	49,706	0.007	371	9.638E+00	4.315E-07
Drive_Main-Isle_14	35,505	0.007	265	6.884E+00	3.082E-07
Drive_Main-Isle_15	35,505	0.007	265	6.884E+00	3.082E-07
Drive_Main-Isle_16	35,505	0.007	265	6.884E+00	3.082E-07
Drive_Main-Isle_17	35,505	0.007	265	6.884E+00	3.082E-07
Drive_Main-Isle_18	35,505	0.007	265	6.884E+00	3.082E-07
Drive_Main-Isle_19	35,505	0.007	265	6.884E+00	3.082E-07
Drive_Main-Isle_20	35,505	0.007	265	6.884E+00	3.082E-07
Drive_Main-Isle_21	35,505	0.007	265	6.884E+00	3.082E-07
Drive_Main-Isle_22	35,505	0.007	265	6.884E+00	3.082E-07

<b>Description (Source ID)</b>	<b>Annual Truck Trips</b>	<b>Miles Per Trip</b>	<b>Total Annual VMT</b>	<b>DPM (Annual Grams)</b>	<b>DPM (Grams/Second)<sup>(A)</sup></b>
Drive_Main-Isle_23	35,505	0.007	265	6.884E+00	3.082E-07
Drive_Isle-A_1	7,101	0.007	53	1.377E+00	6.164E-08
Drive_Isle-A_2	7,101	0.007	53	1.377E+00	6.164E-08
Drive_Isle-A_3	7,101	0.007	53	1.377E+00	6.164E-08
Drive_Isle-A_4	7,101	0.007	53	1.377E+00	6.164E-08
Drive_Isle-C_1	7,101	0.007	53	1.377E+00	6.164E-08
Drive_Isle-C_2	7,101	0.007	53	1.377E+00	6.164E-08
Drive_Isle-C_3	7,101	0.007	53	1.377E+00	6.164E-08
Drive_Isle-C_4	7,101	0.007	53	1.377E+00	6.164E-08
Drive_Isle-J_1	7,101	0.007	53	1.377E+00	6.164E-08
Drive_Isle-J_2	7,101	0.007	53	1.377E+00	6.164E-08
Drive_Isle-J_3	7,101	0.007	53	1.377E+00	6.164E-08
<b>Off-Site Truck Travel (Public Roads)</b>					
Zeiders Road	78,110	0.63	49,322	6.967E+02	3.119E-05
Scott Road	78,110	0.18	14,017	1.980E+02	8.864E-06
Interstate 215	78,110	1.01	78,962	1.115E+03	4.993E-05
(A) DPM emission rate is in grams/second for volume sources and grams/second/m <sup>2</sup> for area sources.					

#### 4.2.3.2 Source Location and Type

The proposed Project's operational emissions sources are shown in Figure 4-2. The UTM coordinates for the northwest corner of each source are shown in Table 4-8. The Projects sources were modeled as volume sources (on-site travel), point sources (idling), and area sources (off-site travel).

Figure 4-2: Modeled Operational Emissions Sources



<b>Table 4-8: Modeled Emissions Source Location</b>			
<b>Source ID</b>	<b>Description</b>	<b>UTM Coordinates (Zone 11N)</b>	
		<b>Easting</b>	<b>Northing</b>
<u>On-Site Truck Idling</u>			
STCK01	Building D: Dock 1	483447.58	3721532.17
STCK02	Building D: Dock 2	483452.07	3721532.11
STCK03	Building E: Dock 1	483513.64	3721532.22
STCK04	Building E: Dock 2	483517.90	3721532.30
STCK05	Building F: Dock 1	483574.66	3721532.53
STCK06	Building F: Dock 2	483579.10	3721532.61
STCK07	Building J: Dock 1	483635.02	3721562.19
STCK08	Building J: Dock 2	483635.25	3721557.83
STCK09	Building K: Dock 1	483635.12	3721479.99
STCK10	Building K: Dock 2	483635.27	3721476.06
STCK11	Building I: Dock 1	483574.70	3721501.83
STCK12	Building I: Dock 2	483578.98	3721501.75
STCK13	Building H: Dock 1	483513.51	3721501.84
STCK14	Building H: Dock 2	483517.98	3721501.86
STCK15	Building G: Dock 1	483447.72	3721501.62
STCK16	Building G: Dock 2	483452.16	3721501.62
STCK17	Building C: Dock 1	483386.40	3721468.66
STCK18	Building C: Dock 2	483386.35	3721464.83
STCK19	Building B: Dock 1	483386.62	3721519.38
STCK20	Building B: Dock 2	483386.69	3721515.33
STCK21	Building A: Dock 1	483386.77	3721569.90
STCK22	Building A: Dock 2	483386.73	3721565.87
<u>On-Site Truck Travel</u>			
VOL01	Drive_Entry-Isle_1	483711.57	3721418.35
VOL02	Drive_Entry-Isle_2	483698.98	3721417.78
VOL03	Drive_Entry-Isle_3	483686.67	3721417.78
VOL04	Drive_Entry-Isle_4	483674.94	3721417.78
VOL05	Drive_Entry-Isle_5	483663.49	3721417.21
VOL06	Drive_Entry-Isle_6	483651.47	3721417.78
VOL07	Drive_Entry-Isle_7	483639.73	3721417.78
VOL08	Drive_Entry-Isle_8	483627.71	3721421.22
VOL09	Drive_Entry-Isle_9	483621.70	3721433.24
VOL10	Drive_Entry-Isle_10	483621.99	3721445.54
VOL11	Drive_Entry-Isle_11	483621.70	3721457.85
VOL12	Drive_Entry-Isle_12	483621.70	3721469.87
VOL13	Drive_Main-Isle_1	483621.99	3721481.61
VOL14	Drive_Main-Isle_2	483622.27	3721493.34
VOL15	Drive_Main-Isle_3	483622.27	3721505.65
VOL16	Drive_Main-Isle_4	483622.27	3721516.81

Source ID	Description	UTM Coordinates (Zone 11N)	
		Easting	Northing
VOL17	Drive_Main-Isle_5	483610.25	3721516.52
VOL18	Drive_Main-Isle_6	483599.09	3721516.52
VOL19	Drive_Main-Isle_7	483587.64	3721516.81
VOL20	Drive_Main-Isle_8	483576.19	3721516.52
VOL21	Drive_Main-Isle_9	483565.03	3721516.24
VOL22	Drive_Main-Isle_10	483553.87	3721516.52
VOL23	Drive_Main-Isle_11	483541.85	3721516.81
VOL24	Drive_Main-Isle_12	483530.12	3721516.52
VOL25	Drive_Main-Isle_13	483518.09	3721516.52
VOL26	Drive_Main-Isle_14	483506.07	3721516.52
VOL27	Drive_Main-Isle_15	483493.77	3721516.52
VOL28	Drive_Main-Isle_16	483482.32	3721516.52
VOL29	Drive_Main-Isle_17	483470.01	3721516.52
VOL30	Drive_Main-Isle_18	483458.28	3721516.52
VOL31	Drive_Main-Isle_19	483446.54	3721516.52
VOL32	Drive_Main-Isle_20	483435.09	3721516.24
VOL33	Drive_Main-Isle_21	483422.79	3721516.52
VOL34	Drive_Main-Isle_22	483411.05	3721516.52
VOL35	Drive_Main-Isle_23	483399.32	3721516.81
VOL36	Drive_Isle-A_1	483399.60	3721528.26
VOL37	Drive_Isle-A_2	483399.60	3721540.57
VOL38	Drive_Isle-A_3	483399.60	3721552.01
VOL39	Drive_Isle-A_4	483399.60	3721563.46
VOL40	Drive_Isle-C_1	483399.60	3721505.36
VOL41	Drive_Isle-C_2	483399.60	3721493.63
VOL42	Drive_Isle-C_3	483399.60	3721482.18
VOL43	Drive_Isle-C_4	483399.60	3721470.73
VOL44	Drive_Isle-J_1	483622.58	3721528.43
VOL45	Drive_Isle-J_2	483622.82	3721540.36
VOL46	Drive_Isle-J_3	483623.07	3721552.52
<b>Off-Site Truck Travel</b>			
ARLN03	Zeiders Road	483717.99	3721415.13
ARLN04	Scott Road	483716.31	3722431.31
ARLN05	Interstate 215	484004.76	3722445.88

#### 4.2.3.3 Source Treatment

On- and off-site emission sources were treated as point, volume, and area sources. On-site idling emissions were treated as a series of point sources, with each building receiving one point source per truck dock (i.e., two point sources per building). The point sources (defined by default in AERMOD by the acronym "STCK") were modeled as having an exit gas temp of 92.85 degrees Celsius, a stack diameter of 4 inches, and an exist gas velocity of 50 meters per second. On-site truck travel emissions were treated as a series of adjacent volume sources. Consistent with the AERMOD User Guide, due to their proximity to

buildings, these volume sources were treated as elevated sources. To compute the initial lateral dimensions for the volume sources, the lengths of the volume sources were divided by 2.15. To compute the initial vertical dimensions for the volume sources, the height of the adjacent building was divided by 2.15 (U.S. EPA, 2023; see Table 3-3). Off-site truck travel emissions were treated as a series of area line sources. The release height for all modeled sources was set to 4.12 meters, the approximate height of a truck exhaust. The dimensions of the modeled point, volume, and area sources are shown in Table 4-9.

<b>Table 4-9: Modeled Emissions Source Dimensions</b>			
<b>Source ID</b>	<b>Description</b>	<b>Length (m)</b>	<b>Width (m)</b>
<u>On-Site Truck Idling</u>			
STCK01	Building D: Dock 1	--	0.1016 <sup>(A)</sup>
STCK02	Building D: Dock 2	--	0.1016 <sup>(A)</sup>
STCK03	Building E: Dock 1	--	0.1016 <sup>(A)</sup>
STCK04	Building E: Dock 2	--	0.1016 <sup>(A)</sup>
STCK05	Building F: Dock 1	--	0.1016 <sup>(A)</sup>
STCK06	Building F: Dock 2	--	0.1016 <sup>(A)</sup>
STCK07	Building J: Dock 1	--	0.1016 <sup>(A)</sup>
STCK08	Building J: Dock 2	--	0.1016 <sup>(A)</sup>
STCK09	Building K: Dock 1	--	0.1016 <sup>(A)</sup>
STCK10	Building K: Dock 2	--	0.1016 <sup>(A)</sup>
STCK11	Building I: Dock 1	--	0.1016 <sup>(A)</sup>
STCK12	Building I: Dock 2	--	0.1016 <sup>(A)</sup>
STCK13	Building H: Dock 1	--	0.1016 <sup>(A)</sup>
STCK14	Building H: Dock 2	--	0.1016 <sup>(A)</sup>
STCK15	Building G: Dock 1	--	0.1016 <sup>(A)</sup>
STCK16	Building G: Dock 2	--	0.1016 <sup>(A)</sup>
STCK17	Building C: Dock 1	--	0.1016 <sup>(A)</sup>
STCK18	Building C: Dock 2	--	0.1016 <sup>(A)</sup>
STCK19	Building B: Dock 1	--	0.1016 <sup>(A)</sup>
STCK20	Building B: Dock 2	--	0.1016 <sup>(A)</sup>
STCK21	Building A: Dock 1	--	0.1016 <sup>(A)</sup>
STCK22	Building A: Dock 2	--	0.1016 <sup>(A)</sup>
<u>On-Site Truck Travel</u>			
VOL01	Drive_Entry-Isle_1	12.02	12.02
VOL02	Drive_Entry-Isle_2	12.02	12.02
VOL03	Drive_Entry-Isle_3	12.02	12.02
VOL04	Drive_Entry-Isle_4	12.02	12.02
VOL05	Drive_Entry-Isle_5	12.02	12.02
VOL06	Drive_Entry-Isle_6	12.02	12.02
VOL07	Drive_Entry-Isle_7	12.02	12.02
VOL08	Drive_Entry-Isle_8	12.02	12.02
VOL09	Drive_Entry-Isle_9	12.02	12.02
VOL10	Drive_Entry-Isle_10	12.02	12.02
VOL11	Drive_Entry-Isle_11	12.02	12.02

<b>Table 4-9: Modeled Emissions Source Dimensions</b>			
<b>Source ID</b>	<b>Description</b>	<b>Length (m)</b>	<b>Width (m)</b>
VOL12	Drive_Entry-Isle_12	12.02	12.02
VOL13	Drive_Main-Isle_1	12.02	12.02
VOL14	Drive_Main-Isle_2	12.02	12.02
VOL15	Drive_Main-Isle_3	12.02	12.02
VOL16	Drive_Main-Isle_4	12.02	12.02
VOL17	Drive_Main-Isle_5	12.02	12.02
VOL18	Drive_Main-Isle_6	12.02	12.02
VOL19	Drive_Main-Isle_7	12.02	12.02
VOL20	Drive_Main-Isle_8	12.02	12.02
VOL21	Drive_Main-Isle_9	12.02	12.02
VOL22	Drive_Main-Isle_10	12.02	12.02
VOL23	Drive_Main-Isle_11	12.02	12.02
VOL24	Drive_Main-Isle_12	12.02	12.02
VOL25	Drive_Main-Isle_13	12.02	12.02
VOL26	Drive_Main-Isle_14	12.02	12.02
VOL27	Drive_Main-Isle_15	12.02	12.02
VOL28	Drive_Main-Isle_16	12.02	12.02
VOL29	Drive_Main-Isle_17	12.02	12.02
VOL30	Drive_Main-Isle_18	12.02	12.02
VOL31	Drive_Main-Isle_19	12.02	12.02
VOL32	Drive_Main-Isle_20	12.02	12.02
VOL33	Drive_Main-Isle_21	12.02	12.02
VOL34	Drive_Main-Isle_22	12.02	12.02
VOL35	Drive_Main-Isle_23	12.02	12.02
VOL36	Drive_Isle-A_1	12.02	12.02
VOL37	Drive_Isle-A_2	12.02	12.02
VOL38	Drive_Isle-A_3	12.02	12.02
VOL39	Drive_Isle-A_4	12.02	12.02
VOL40	Drive_Isle-C_1	12.02	12.02
VOL41	Drive_Isle-C_2	12.02	12.02
VOL42	Drive_Isle-C_3	12.02	12.02
VOL43	Drive_Isle-C_4	12.02	12.02
VOL44	Drive_Isle-J_1	12.02	12.02
VOL45	Drive_Isle-J_2	12.02	12.02
VOL46	Drive_Isle-J_3	12.02	12.02
<b>Off-Site Truck Travel</b>			
ARLN03	Zeiders Road	1,016.2	13.00
ARLN04	Scott Road	288.8	13.00
ARLN05	Interstate 215	1,626.9	13.00
(A) The measure of the stack inside diameter is provided as the width for the truck idling sources.			

#### 4.2.3.4 Meteorological Data Input

The same meteorological inputs that were used for the construction exhaust dispersion modeling were used for the operational exhaust modeling.

#### 4.2.3.5 Terrain Inputs

The same terrain inputs that were used for the construction exhaust dispersion modeling were used for the operational exhaust modeling.

#### 4.2.3.6 Modeled Receptors

The same receptor inputs that were used for the construction exhaust dispersion modeling were used for the operational exhaust modeling.

### 4.2.4 HEALTH RISK ANALYSIS METHODOLOGY

Cancer risk and non-cancer health risks to sensitive receptors within one-quarter mile of on-site sources were estimated using the U.S. EPA's AERMOD dispersion model and recommendations contained in the SCAQMD's *Health Risk Assessment Guidance for Analyzing Cancer Risks from Mobile Source Diesel Emissions* white paper and *Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics Hot Spots Information and Assessment Act*, as well as the OEHHA *Air Toxics Hot Spots Program Guidance Manual*.

#### 4.2.4.1 Cancer Risk

Cancer risk is the calculated, pollutant-specific estimated probability of developing cancer based upon the dose and exposure to the TAC. Cancer risk is determined by calculating the combinatory effects of the cancer potency factor (CPF) when inhaling the toxic, the daily inhalation dose, the age group the receptor is cohort to, the duration of exposure over a lifetime (70 years), and other factors such as age sensitivity and the amount of time spent at the location of exposure. For the proposed Project, risks were assessed for the inhalation pathway (i.e., breathing) for residential receptors.<sup>8</sup> Residential receptors were assessed under a 30-year exposure duration to detail potential risk to those under lifetime exposure. Cancer risk equations for residential and school receptors are summarized in Table 4-10 and Table 4-11.

For the first year of exposure, receptors were only assessed for exposure to construction PM<sub>10</sub> emissions. This is consistent with the construction schedule described in Section 0. For the second year of exposure, receptors were assessed for exposure to construction and operational PM<sub>10</sub> emissions. For the remaining duration of exposure (28 years for residential receptors; see "Exposure Duration" defined in Table 4-10) risks at receptor locations are only based on exposure to exhaust PM<sub>10</sub> emissions generated during operational activities.

---

<sup>8</sup> OEHHA has not established cancer risk values for diesel exhaust based on the ingestion or dermal pathways. Therefore, only the inhalation pathway is evaluated with regard to this TAC.

<b>Table 4-10: Cancer Risk Equations</b>	
Equation 1 - Residential Risk:	$RISK_{INH.RES} = DOSE_{AIR.RES} \times CPF \times ASF \times \frac{ED}{AT} \times FAH$
Where:	
DOSE <sub>AIR</sub> =	Daily Inhalation Dose (mg/kg-day). See Table 4-11.
CPF =	Cancer Potency Factor for Inhalants (mg/kg-day). CPF is expressed as the 95th percent upper confidence limit of the slope of the dose response curve under continuous lifetime exposure conditions. The CPF for diesel exhaust is 1.1 mg/kg-day.
ASF =	Age Sensitivity Factor. ASF is a protective coefficient intended to take into account increased susceptibility to long-term health effects from early-life exposure to TACs. The recommended ASFs are 10 for the third-trimester to birth and two-year age bins, three for the two-year to nine-year and 16-year age bins, and one for receptors over 16 years of age.
ED =	Exposure Duration (years). Exposure duration characterizes the length of residency for the residential (30 years) receptor.
AT =	Averaging Time (years). A 70-year (lifetime) averaging time is used to characterize to total risk as a factor of average risk over a typical lifespan.
FAH =	Fraction at Home. FAH is the percentage of time the receptor is physically at the receptor location.  <i>Residential Receptors</i> The recommended percentages are 85 percent for the third-trimester to birth and two-year age bins, 72 percent for the two-year to 16-year age bins, and 73 for receptors over 16 years of age.

<b>Table 4-11: Inhalation Dose Equations</b>	
Residential Dose	$DOSE_{AIR.RES} = C_{AIR} \times \frac{BR}{BW} \times A \times EF \times 10^{-6}$
Where:	
C <sub>AIR</sub> =	Concentration of TAC in air (µg/m <sup>3</sup> ). Concentration of TAC in micrograms per one cubic meter of air. The AERMOD program is used in the study to determine concentrations of diesel particulate matter at surrounding discrete and grid receptor points.
BR/BW =	Breathing Rate ÷ Body Weight (L/kg/day). Daily breathing rate normalized to body weight.  <i>Residential Receptor</i> The 95 <sup>th</sup> percentile breathing rate to body weight ratios are used in this study with a recommended 361 L/kg/day for the third-trimester to birth age bin, 1,090 L/kg/day for the birth to two-years age bin, 745 for the two-years to 16-years age bin, 335 L/kg/day for the 16-years to 30-years age bin, and 290 L/kg/day for the 16-years to 70-years age bin.
A =	Inhalation Absorption Factor. Is a coefficient that reflects the fraction of chemical absorbed in studies used in the development of CPF and Reference Exposure Levels (RELs). An absorption factor of one is recommended for all chemicals.
EF =	Exposure Frequency. EF is the ratio of days in a year that a receptor is receiving the dose.  <i>Residential</i> The recommended EF is 0.96 characterizing an assumed 350 days a year that a residential receptor is home for some portion of the day.

#### 4.2.4.2 Cancer Burden

Cancer burden is the product of public cancer risk and the population exposed to the carcinogen. There are approximately 30 residential dwelling units located within ¼-mile of the Project site. There are approximately

3.09 persons per household in the City of Menifee (City of Menifee, 2013). Thus, an estimated population of 93 people live within ¼-mile of the Project site.

#### 4.2.4.3 Non-Cancer Risk

The chronic non-cancer hazard quotient is the calculated pollutant-specific indicator for risk of developing an adverse health effect on specific organ system(s) targeted by the identified TAC, in this DPM. The potential for exposure to result in chronic non-cancer effects is evaluated by comparing the estimated annual average air concentration to the chemical-specific, non-cancer chronic RELs. The REL is a concentration below which there is assumed to be no observable adverse health impact to a target organ system. When calculated for a single chemical, the comparison yields a ratio termed a hazard quotient. To evaluate the potential for adverse chronic non-cancer health effects from simultaneous exposure to multiple chemicals, the hazard quotients for all chemicals are summed, yielding a hazard index. The chronic REL for DPM was established by OEHHA as 5 µg/m<sup>3</sup>. For an acute hazard quotient, the one-hour maximum concentration is divided by the acute REL for the substance; however, there is no acute REL for DPM.

Chronic non-cancer risks are considered significant if a project's TAC emissions result in a hazard index greater than or equal to one. Non-cancer risk equations are summarized in Table 4-12.

<b>Table 4-12: Non-Cancer Risk Equation</b>	
Chronic Hazard Quotient:	$HI_{DPM} = \frac{C_{DPM}}{REL_{AAC}}$
Where:	
$HI_{DPM}$ =	Hazard Index; an expression of the potential for non-cancer health effects.
$C_{DPM}$ =	Annual average DPM concentration (µg/m <sup>3</sup> ).
$REL_{DPM}$ =	Reference exposure level (REL) for DPM; the DPM concentration at which no adverse health effects are anticipated.

### 4.3 CONSISTENCY WITH THE APPLICABLE AIR QUALITY PLAN

As described in Section 3.1, the proposed Project is within the South Coast Air Basin, which is under the jurisdiction of the SCAQMD. Pursuant to the methodology provided in Chapter 12 of the SCAQMD *CEQA Air Quality Handbook*, consistency with the AQMP is affirmed if the Project:

- 1) Is consistent with the growth assumptions in the AQMP; and
- 2) Does not increase the frequency or severity of an air quality standards violation, or cause a new one.

Consistency Criterion 1 refers to the growth forecasts and associated assumptions included in the 2022 AQMP. Projects that are consistent with the 2022 AQMP growth assumptions would not interfere with attainment of air quality standards, because this growth is included in the projections used to formulate the AQMP. The proposed Project would employ approximately 553 individuals, all of which would be new jobs in the city; however, these jobs are accounted for within SCAG's growth assumptions for the city (Pemcor, 2024).<sup>9</sup> The proposed Project is consistent with the General Plan and Zoning designations, which form the

<sup>9</sup> The SCAG 2020 RTP/SCS, which formulate the growth projections on which the 2022 AQMP are based, estimated that the City of Menifee would increase employment by approximately 15,400 jobs between 2016 and 2045, a growth rate of approximately 513 new jobs per year during that time period (SCAG, 2020). The proposed Project would add approximately 553 jobs to the city, or approximately 3.6% of the total amount of jobs planned for in the city over an approximately 30 year timeframe.

basis for growth assumption accounted for in the SCAG 2020 RTP/SCS (SCAG, 2020). Therefore, the proposed Project would not exceed the growth assumptions contained in the AQMP.

Consistency Criterion 2 refers to the CAAQS and NAAQS. In developing its CEQA significance thresholds, the SCAQMD considered the emission levels at which a project's individual emissions would be cumulatively considerable (SCAQMD, 2003; page D-3). As described below in Section 0, the proposed Project would not generate construction or operational emissions in excess of SCAQMD criteria air pollutant thresholds after the incorporation of Recommended Mitigation Measure AIR-1.

For the reasons described above, the proposed Project would not conflict with the SCAQMD 2022 AQMP.

#### 4.4 CUMULATIVELY CONSIDERABLE INCREASE IN REGULATED NONATTAINMENT POLLUTANTS

The proposed Project would generate both short-term construction emissions and long-term operational emissions. The Project's potential emissions were estimated using CalEEMod, V. 2022.1. As described in more detail below, the proposed Project would not generate short-term or long-term emissions that exceed SCAQMD-recommended pollutant thresholds after the incorporation of recommended Mitigation Measure AIR-1.

##### 4.4.1 CONSTRUCTION EMISSIONS

The proposed Project's maximum daily unmitigated construction emissions are shown in Table 4-13. The construction emissions estimates incorporate measures to control and reduce fugitive dust as required by SCAQMD Rule 403 (see Section 3.3.3). Please refer to Appendix A for CalEEMod output files and detailed construction emissions assumptions.

Season	Maximum Daily Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Winter 2025	3.4	31.7	31.2	0.1	6.7	3.9
Summer 2025	3.3	30.3	30.0	0.1	4.0	2.2
Winter 2026	2.0	15.4	25.3	<0.1	2.8	1.0
Summer 2026	164.7	15.3	27.8	<0.1	2.8	1.0
SCAQMD CEQA Threshold	75	100	550	150	150	55
Threshold Exceeded?	Yes	No	No	No	No	No

Source: MIG, 2024 (see Appendix A) and SCAQMD 2019b.

As shown in Table 4-13, construction criteria air pollutants associated with the proposed Project would be below all SCAQMD regional thresholds, except for VOC emissions, which would be almost 90 lbs / day higher than the SCAQMD CEQA threshold of 75 lbs / day. Therefore, MIG recommends the City incorporate Mitigation Measure AIR-1 into the CEQA documentation being prepared for the proposed Project to reduce VOC emissions below SCAQMD thresholds.

**Mitigation Measure AIR-1: Reduce VOC Emissions.** To reduce VOC emissions associated with the application of architectural coatings, the construction contractor for the Project shall be required to utilize "Super-Compliant" VOC architectural coatings for interior and exterior paint applications at the proposed business park during construction. Consistent with the South Coast Air Quality

Management District's definition, "Super-Compliant" architectural coatings shall have a maximum VOC content of 10 grams of VOC per liter.

The proposed Project's maximum daily mitigated construction emissions, which take into account recommended Mitigation Measure AIR-1, are shown in Table 4-14.

Season	Maximum Daily Emissions (lbs/day)					
	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Winter 2025	3.4	31.7	31.2	0.1	6.7	3.9
Summer 2025	3.3	30.3	30.0	0.1	4.0	2.2
Winter 2026	2.0	15.4	25.3	<0.1	2.8	1.0
Summer 2026	23.7	15.3	27.8	<0.1	2.8	1.0
SCAQMD CEQA Threshold	75	100	550	150	150	55
Threshold Exceeded?	No	No	No	No	No	No

Source: MIG, 2024 (see Appendix A) and SCAQMD 2019b.

As shown in Table 4-14, the proposed Project's maximum daily mitigated construction emissions would be below the SCAQMD's regional pollutant thresholds for all pollutants after compliance with recommended Mitigation Measure AIR-1. Thus, the proposed Project would not generate construction-related emissions that exceed SCAQMD CEQA thresholds.

#### 4.4.2 OPERATIONAL EMISSIONS

The proposed Project's maximum daily unmitigated operational emissions, as estimated using CalEEMod V.2022.1 are shown in Table 4-15. The Project emissions presented are for the proposed Project's first year of operation, which is presumed to be 2026.

As shown in Table 4-15, the proposed Project's maximum daily unmitigated operational emissions would be below the SCAQMD's regional pollutant thresholds for all pollutants.

Source	Maximum Daily Pollutant Emissions (Pounds Per Day) <sup>(A)</sup>					
	VOC	NO <sub>x</sub>	CO	SO <sub>2</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Mobile	8.5	27.7	150.19	0.5	39.3	10.3
Area	10.8	8.2	14.7	<0.1	<0.1	<0.1
Energy	0.3	0.1	2.1	0.2	0.2	0.2
Site Subtotal <sup>(B)</sup>	19.2	30.2	167.0	0.5	39.5	10.5
SCAQMD CEQA Threshold	55	55	550	150	150	55
Threshold Exceeded?	No	No	No	No	No	No

Source: MIG 2024 (See Appendix A) and SCAQMD, 2019b.  
 (A) Maximum daily VOC, CO, SO<sub>2</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub> emissions occur during the summer. Maximum daily NO<sub>x</sub> emissions occur during the winter. See Appendix A.  
 (B) Totals may not equal due to rounding.

### 4.4.3 CONCLUSION

In developing its CEQA significance thresholds, the SCAQMD considered the emission levels at which a project's individual emissions would be cumulatively considerable (SCAQMD, 2003; page D-3). As described above the proposed Project's construction and operational emissions would be below applicable SCAQMD regional thresholds for criteria air pollutants after the incorporation of recommended Mitigation Measure AIR-1. Therefore, the proposed Project would not result in a cumulatively considerable increase in criteria air pollutants.

## 4.5 SENSITIVE RECEPTORS AND SUBSTANTIAL POLLUTANT CONCENTRATIONS

The proposed Project would generate both short-term construction emissions and long-term operational emissions that could affect sensitive residential receptors located near the Project; however, as described in more detail below, the proposed Project would not generate short-term or long-term emissions that exceed SCAQMD-recommended localized significance thresholds or result in other substantial pollutant concentrations.

### 4.5.1 LOCALIZED SIGNIFICANCE THRESHOLDS ANALYSIS

#### 4.5.1.1 Construction Emissions

The proposed Project's maximum daily construction emissions are compared against the SCAQMD's-recommended LSTs in Table 4-16. The LSTs are for SRA 24 (Perris Valley) in which the proposed Project is located. Construction emissions were estimated against the SCAQMD's thresholds for a 5-acre project size. A receptor distance of 25 meters was used to evaluate impacts at sensitive receptor locations for construction activities. The use of construction LSTs based on a 5-acre site is considered to be a conservative approach, since the Project would involve grading / site disturbance of approximately 20.03 acres, which is more than 5 acres.

Construction Phase	Maximum On-Site Pollutant Emissions (lbs/day) <sup>(A)</sup>			
	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Demolition 2025	22.2	19.9	1.1	0.9
Site Preparation 2025	31.6	30.2	6.5	3.9
Grading 2025	29.7	28.3	3.6	2.1
Building Construction 2025	13.7	17.1	0.6	0.5
Building Construction 2026	12.9	17.0	0.5	0.5
Paving 2026	7.1	9.9	0.3	0.3
Architectural Coating 2026	0.9	1.1	<0.1	<0.1
SCAQMD LST Threshold	270	1,577	13	8
Threshold Exceeded?	No	No	No	No

Source: MIG, 2024 (See Appendix A)  
 (A) Emissions presented are worst-case emissions and may reflect summer or winter emissions levels.

As shown in Table 4-16, emissions from construction activities at the Project site will not exceed the SCAQMD's-recommended LSTs for SRA 24.

#### 4.5.1.2 Operational Emissions

The proposed Project's maximum daily operational emissions are compared against the SCAQMD's-recommended LSTs in Table 4-17. The LSTs are for SRA 24 (Perris Valley) in which the proposed Project is located. The operational emissions from on-site mobile, area, and energy sources were evaluated against the SCAQMD's thresholds for a 5-acre project size. A receptor distance of 25 meters was used to evaluate impacts at sensitive receptor locations for operational activities.

Operational Emission Source	Maximum On-Site Pollutant Emissions (lbs/day) <sup>(A)</sup>			
	NO <sub>x</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>
Mobile <sup>(B)</sup>	3.3	11.3	3.2	0.9
Area	0.0	14.7	<0.1	<0.1
Energy	2.5	2.1	0.1	0.2
Total On-Site Emissions	6.7	39.3	6.1	1.8
SCAQMD LST Threshold	176	2,437	15	4
Threshold Exceeded?	No	No	No	No

Source: MIG, 2024 (See Appendix A)  
 (A) Emissions presented are worst-case emissions and may reflect summer or winter emissions levels.  
 (B) Mobile source emissions are from Table 4-15. Total on-site mobile source emissions were presumed to be equal to 15% of total mobile emissions estimates.

As shown in Table 4-17, emissions from operational activities at the Project site will not exceed the SCAQMD's-recommended LSTs for SRA 24.

#### 4.5.1.3 Carbon Monoxide Hot Spots

Monitoring conducted by the SCAQMD in 2020 shows that the highest concentrations of CO occurred in traffic-dense areas of Los Angeles County. The maximum 8-hour and 1-hour concentrations recorded anywhere in Los Angeles County were 3.1 ppm and 4.5 ppm, respectively, which were substantially below state standards (20ppm 1-hour and 9.0 ppm 8-hour) and federal standards (35 ppm 1-hour and 9 ppm 8-hour). The near-road monitoring along I-5 and I-10 were even lower, with a peak 1-hour CO concentration of 2.4 ppm along I-5 and 1.5 ppm along I-10, and with a peak 8-hour CO concentration of 2.0 ppm along I-5 and 1.2 ppm along I-10 (SCAQMD 2022). The proposed Project would be located along Zeiders Road and near I-215. Both of these roadway segments in proximity of the Project site have lower traffic volumes than the portions of I-5 and I-10 evaluated by the SCAQMD, and therefore, would also have an existing CO concentration lower than state and federal standards.

The proposed Project would add approximately 1,751 new vehicle trips to the local roadway infrastructure per day (2,030 PCE trips), with 184 and 153 of those trips occurring during the AM and PM peak hours, respectively (Ganddini 2024).<sup>10</sup> The Project is not located in an area where hourly or daily

<sup>10</sup> PCE trips reflect the impact of large trucks, buses, and recreational vehicles on traffic flow. By their size alone, these vehicles occupy the same space as two or more passenger cars. In addition, the time it takes for them to accelerate and slow down is much longer than for passenger cars, and varies depending on the type of vehicle and number of axles. A PCE factor of 2.0, 2.5, and 3.0 were applied to the 2-, 3-, and 4-axle trucks, respectively, that were associated with the proposed Project (Ganddini 2024). Note that additional PCE trips were added for the truck trips accounted for as part of the "Business Park" land use, since those are specifically required for the air quality analysis and are not included as PCE per the Draft Scoping Agreement.

traffic volumes are anywhere close to 44,000 vehicles per hour, the BAAQMD screening threshold, or 100,000 vehicles per day. The proposed Project would not cause intersection volumes to exceed any daily (100,000) or hourly (44,000) screening vehicle volumes maintained by the SCAQMD and other regional air districts and, therefore, would not result in significant CO concentrations.

#### **4.5.2 TOXIC AIR CONTAMINANT EMISSIONS / HEALTH RISK ASSESSMENT**

As described in Section 3.2.2, sensitive receptors are located west, north, and south of the Project site. Project-related construction activities would emit PM<sub>10</sub> from equipment exhaust. The operation of trucks during operation of the proposed Project would also generate PM<sub>10</sub> from equipment exhaust during idling and truck operation.

##### **4.5.2.1 Project-Level Individual Cancer Risk from Exposure to DPM**

The predicted locations of the annual, unmitigated point of maximum impact (PMI) and the maximally exposed individual receptor (MEIR) for DPM exposure during construction are shown in Figure 4-3 and Figure 4-4, along with contours of pollutant concentrations in proximity of the Project site. The predicted PMI is located south of the site, in a field / equipment staging area owned by the southern residential receptor. Since the PMI for DPM exposure is located on land that is not occupied by a receptor on a permanent basis, lifetime excess cancer risks and chronic non-cancer health hazards, which are based on exposure to annual average pollutant concentrations, were not estimated for the modeled PMI location. Accordingly, health risks were assessed at the modeled residential MEIR location, which is also located south of the Project site at 33751 Zeiders Road.

The HRA for residential receptors evaluated worst-case carcinogenic and non-carcinogenic risks to child (3<sup>rd</sup> trimester, 0-2 years, and 2-16 years) and adult (16-30 years) receptors. As shown in Appendix C, the calculated, maximum unmitigated construction risks would be approximately 5.2 excess cancers in a million in Year 1, which corresponds to infant receptors that are less than two years old at the start of construction activities. See Appendix C for risks to all age groups. Construction would also occur during the first six months of Year 2, after which operation of the proposed Project would begin. The proposed Project would generate DPM once operational from diesel truck trips to and from the site, as well as their on-site idling. The calculated, maximum unmitigated risks for exposure to the combined construction and operational concentrations at the MEIR location during Year 2 would be approximately 1.4 excess cancers in a million. After Year 2, the proposed Project would continue to generate DPM from operational activities. An operational HRA was conducted to evaluate the potential health risks posed by these activities. Whereas construction activities would only last approximately one-and-a-half years, the proposed Project's operational activities would continue to occur year after year until the Project site is redeveloped or utilized for purposes other than a business park. Health risks from construction and operational activities are presented in Table 4-18 for the MEIR. Figure 4-5 shows the dispersion characteristics and location of the MEIR for operational activities. As shown in Table 4-18, the maximum excess cancer risk at the MEIR location would be approximately 6.8 excess cancers per million population, which is below the SCAQMD threshold of 10.0 excess cancers per million population.

Table 4-18: Unmitigated Cancer Risk at PMI and MEIR									
Receptor	UTM Location		Annual Average DPM Concentration ( $\mu\text{g}/\text{m}^3$ )			Excess Cancer Risk (per million population)			
	Easting	Northing	Year 1 Construction	Year 2 Construction and Operation <sup>(A)</sup>	Year 3-30 Operation <sup>(B)</sup>	Year 1	Year 2	Year 3-30	Total
PMI <sup>(C)</sup>	483610.00	3721409.00	0.10716	0.03134	0.00229	--	--	--	--
MEIR	483654.71	3721301.62	0.03465	0.010055	0.00053	5.2	1.4	0.2	6.9 <sup>(D)</sup>

Source: MIG, 2024 (see Appendix C)

(A) Year 2 includes emissions from both construction and operational activities. The Year 2 concentration was calculated multiplying the operational concentration in Year 3-30 by the percent of the year that operation occurs in Year 2 (50%), and adding that Year 2 operational concentration to the Year 2 construction concentration. The construction DPM concentration for Year 2 was 0.00979  $\mu\text{g}/\text{m}^3$ . The operational DPM contribution during Year 2 was estimated to be approximately 0.009525  $\mu\text{g}/\text{m}^3$ , which reflects the remaining approximately six (6) months during the Year 2 that the Project could be operational.

(B) The annual average DPM operational concentration is based on the first full year of operation (Year 3).

(C) The PMIs vary between Year 1 and Year 2 of construction, as well as Project operation; however, the PMIs are always to the south of the site in the field immediately south of the site or, in the case of operations, in the roadway of Zeiders Road.

(D) Total may not equal due to rounding.

Figure 4-3: Modeled Year 1 Construction Annual Average DPM Concentrations ( $\mu\text{g}/\text{m}^3$ )

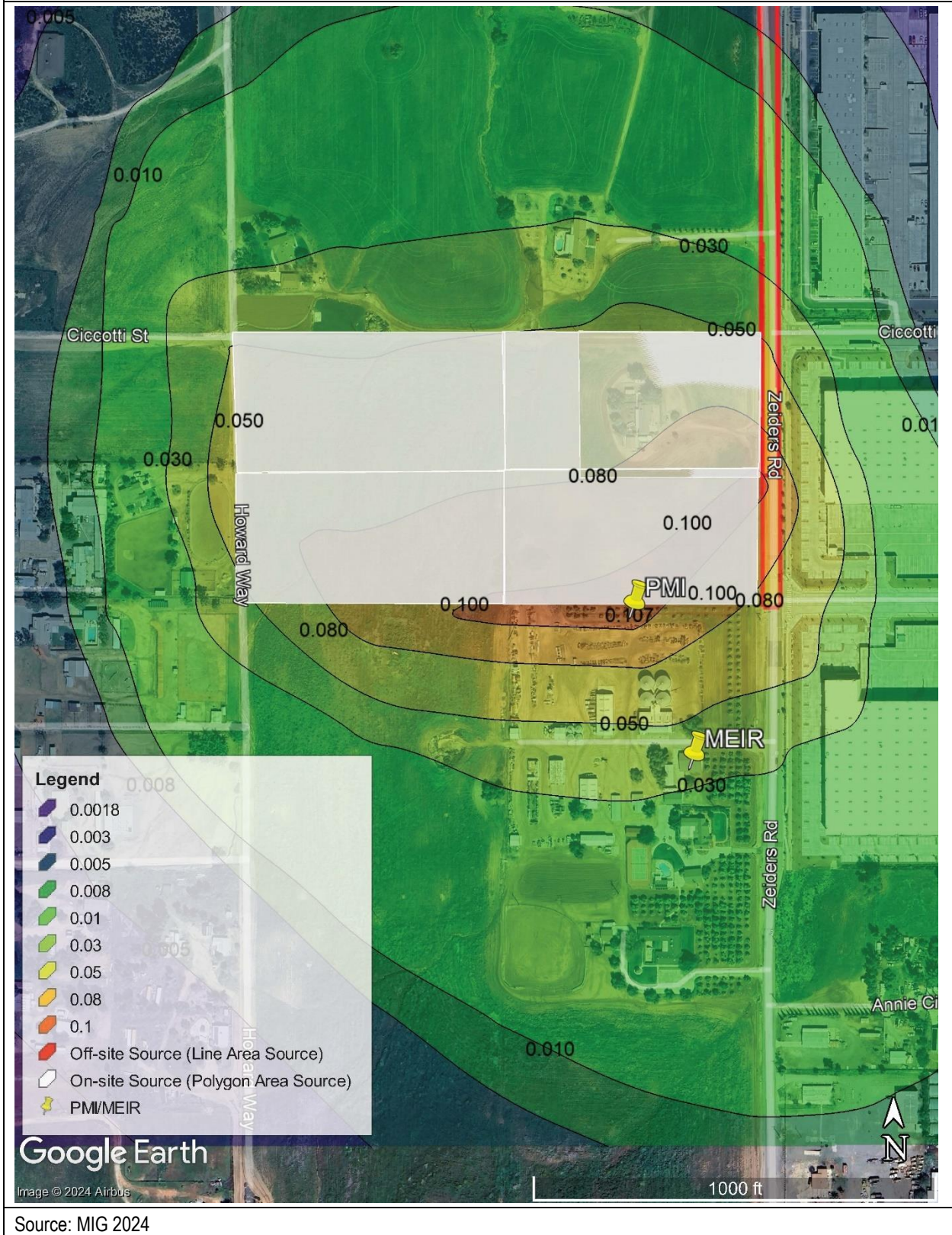
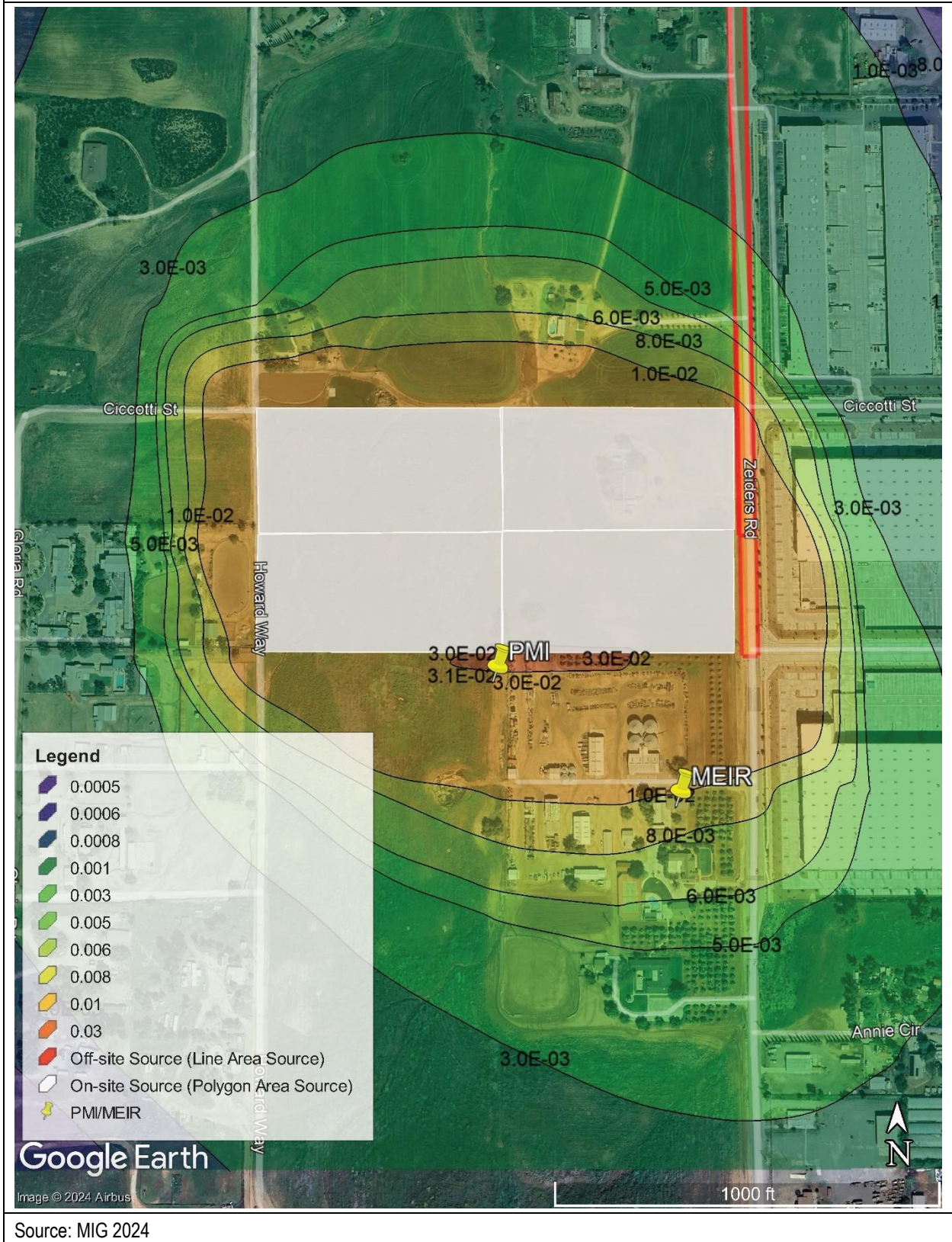
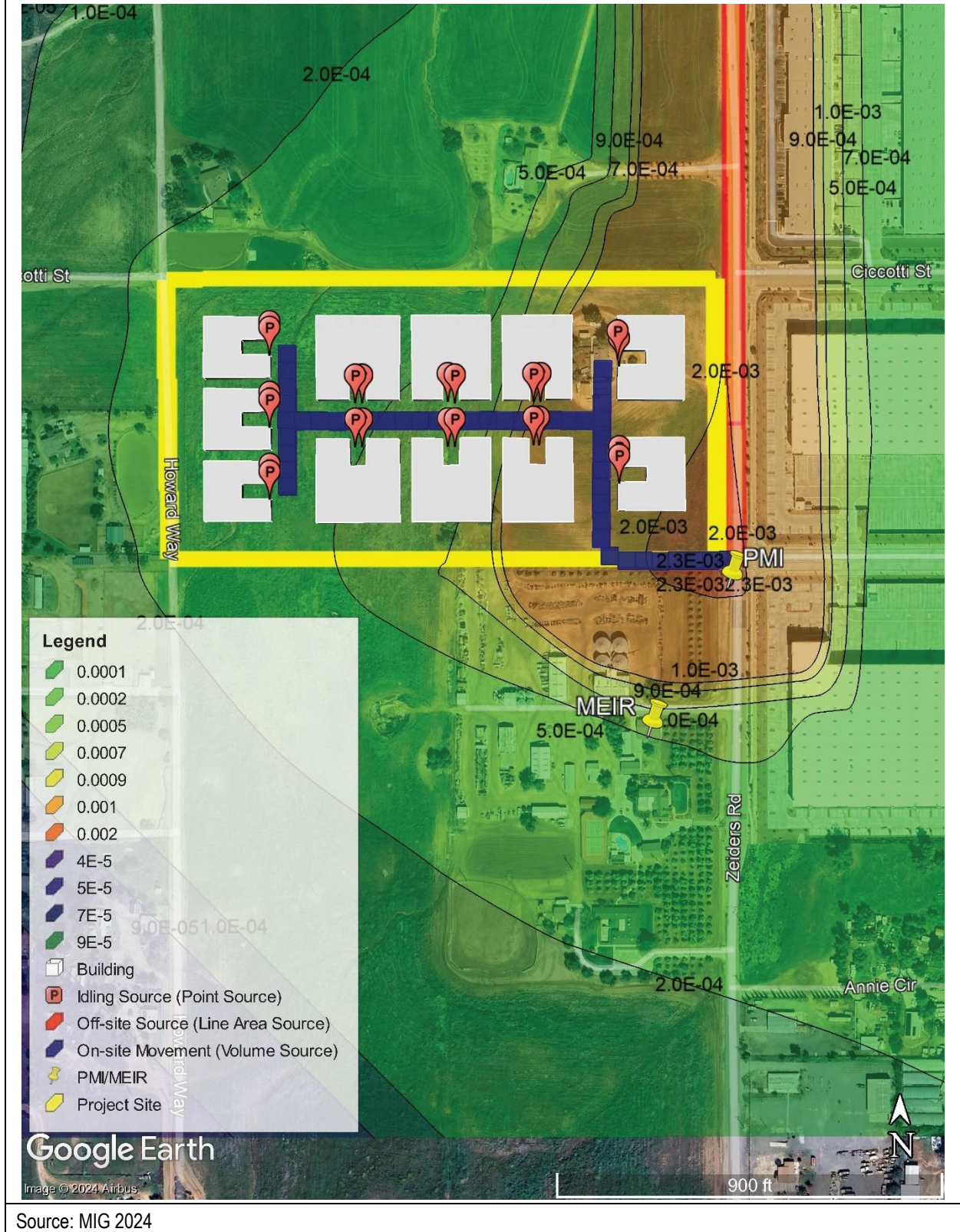


Figure 4-4: Modeled Year 2 Construction Annual Average DPM Concentrations ( $\mu\text{g}/\text{m}^3$ )



Source: MIG 2024

Figure 4-5: Modeled Operational Annual Average DPM Concentrations ( $\mu\text{g}/\text{m}^3$ )



#### 4.5.2.2 Cumulative Individual Cancer Risk from Exposure to DPM

The proposed Project would not result in a cumulatively considerable net increase in cancer risk at nearby sensitive receptors. The Project is located in an area that has relatively low cancer risk (i.e., below the 30% per MATES V; see Section 3.2.3.2), is not located in a disadvantaged community (see Section 3.2.3.3), and the other light industrial land uses that have recently been constructed in proximity of the Project site are located to the north / northeast. As shown in Figure 3-2, and further evidenced by the DPM pollutant concentration contours shown in Figure 4-3 through Figure 4-5, pollutants generally disperse to the south and southwest of sources. Given that the other light industrial projects recently approved / constructed in proximity of the Project site are located to the east, and that those projects' on-site emissions would also disperse to the south / southwest, the other projects would not impact the Project's MEIR or other sensitive receptors in proximity of the Project site in a magnitude similar to that of the proposed Project. The Project would not result in a cumulatively considerable impact with regard to excess cancer risk.

#### 4.5.2.3 Cancer Burden

The average cancer risk based on the lifetime exposure scenario (70 years), is  $1.08E-5$  (approximately 108 cases per million people). The product of cancer risk and the estimated population (96) is 0.001001 and does not exceed the SCAQMD threshold of 0.5 excess cancer cases.

#### 4.5.2.4 Non-Cancer Risk

The maximum annual average DPM concentration at any receptor location would be approximately  $0.3465 \mu\text{g}/\text{m}^3$ , which would occur at the MEIR location. Based on the chronic inhalation REL for DPM ( $5 \mu\text{g}/\text{m}^3$ ), the calculated chronic hazard quotient during the maximum exposure to DPM concentration would be 0.007, which is below the SCAQMD's non-cancer hazard index threshold value of 1.0. All other receptor exposure scenarios would result in a non-carcinogenic hazard index less than 0.007.

### 4.6 ODORS

According to the SCAQMD *CEQA Air Quality Handbook*, land uses associated with odor complaints include agricultural operations, wastewater treatment plants, landfills, and certain industrial operations (such as manufacturing uses that produce chemicals, paper, etc.). The proposed Project would result in the construction of a new business park that could generate odors related to manufacturing activities (e.g., brewing) and/or equipment use (e.g., oils, lubricants, fuel vapors); however, these operations would be relatively small in scale (based on the amount of space per building), generally be located toward the center of the site (i.e., away from off-site receptor locations), and activities would generally take place 200 feet or more from upwind receptor and 550 feet or more from downwind receptors, giving potentially odorous compounds time and space to disperse. Further, the Project site is located in an area of the city that is envisioned for these types of uses.<sup>11</sup> The activities proposed as part of the Project would not generate sustained odors that would affect substantial numbers of people, nor nearby sensitive receptors.

---

<sup>11</sup> The Project site has a zoning designation of Economic Development Corridor – Southern Gateway (EDC-SG). As described in the Zoning Code as a portion of the city that, “feature(s) a business park style of development consisting of light industrial and office uses, with commercial use opportunities. The objective is to allow development while preserving the rural character of the Southern Gateway area” (City of Menifee, 2024a).

## 5 REPORT PREPARERS AND REFERENCES

---

This report was prepared by MIG under contract to the City of Menifee. This Report reflects the independent, objective, professional opinion of MIG. The following individuals were involved in the preparation and review of this report:

### **MIG**

Chris Dugan, Director of Air Quality, GHG, and Noise Services  
[cdugan@migcom.com](mailto:cdugan@migcom.com)

1650 Spruce Street, Suite 106  
 Riverside, California 92507  
 (951) 787-9222

Phil Gleason, Senior Project Manager II  
[pgleason@migcom.com](mailto:pgleason@migcom.com)

### 5.1 REFERENCES

- California Air Resources Board (CARB). 2004. Definitions of VOC and ROG. Sacramento, CA. 2004. Available online at: <[https://www.arb.ca.gov/ei/speciate/voc\\_rog\\_dfn\\_11\\_04.pdf](https://www.arb.ca.gov/ei/speciate/voc_rog_dfn_11_04.pdf)>
- \_\_\_\_\_. 2005. Air Quality and Land Use Handbook: A Community Health Perspective. Sacramento, CA. 2005. Available online at: <<https://www.arb.ca.gov/ch/handbook.pdf>>
- \_\_\_\_\_. 2016. "Overview: Diesel Exhaust and Health." Health Effects of Diesel. Available online at: <<https://www.arb.ca.gov/research/diesel/diesel-health.htm>>
- \_\_\_\_\_. 2022a. Sulfate and Health. 2022. <https://ww2.arb.ca.gov/resources/sulfate-and-health>
- \_\_\_\_\_. 2022b. CEPAM2019v1.03 Emission Projection Data 2017 Estimated Annual Average Emissions South Coast Air Basin. 2022. <https://ww2.arb.ca.gov/applications/emissions-air-basin>
- City of Menifee (Menifee). 2013. Exhibit LU-4 Land Use Buildout Summary. [https://www.cityofmenifee.us/DocumentCenter/View/17527/3\\_LU-4\\_Land-Use-Buildout-Summary\\_Final?bidId=](https://www.cityofmenifee.us/DocumentCenter/View/17527/3_LU-4_Land-Use-Buildout-Summary_Final?bidId=)
- \_\_\_\_\_. 2024a. Complete Development Code – Updated March 2024. March 2024. Accessed September 12, 2024. <https://www.cityofmenifee.us/DocumentCenter/View/9188/Final-Zoning-Ordinance?bidId=>
- \_\_\_\_\_. 2024b. Menifee General Plan Land Use Map. Web. Accessed September 12, 2024.
- Ganddini Group (Ganddini) 2024. Memorandum Of Understanding. Pemcor Commercial Industrial Business Park Project Scoping Agreement for Traffic Impact Analysis GGI Project No. 19729. June 17, 2024.
- Office of Environmental Health Hazard Assessment (OEHHA). 2021a. CalEnviroScreen 4.0 Report. October 2021. <https://oehha.ca.gov/media/downloads/calenviroscreen/report/calenviroscreen40reportf2021.pdf>
- \_\_\_\_\_. 2021b. CalEnviroScreen 4.0 Map. October 2021. Available online at: <https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40>
- \_\_\_\_\_. 2022. California Climate Investments to Benefit Disadvantaged Communities. May 3, 2022. <https://calepa.ca.gov/envjustice/ghginvest/>
- PEMCOR Investment Group 2024. Menifee Business Park Operation Statement. 2024.
- SCA Architecture, 2024. Major Plot Plan Review for Pemcor - Zeiders Road. March 2024.

- South Coast Air Quality Management District (SCAQMD) 2003. *White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution*. Diamond Bar, CA. August 2003.
- \_\_\_\_\_. 2008a. Final Localized Significance Threshold Methodology Appendix C - Mass Rate LST Look-up Table. 2008. <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/appendix-c-mass-rate-lst-look-up-tables.pdf?sfvrsn=2>
- \_\_\_\_\_. 2008b. Final Localized Significance Threshold Methodology. Revised July 2008. <https://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf>
- \_\_\_\_\_. 2017a. *Final 2016 Air Quality Management Plan*. Diamond Bar, CA. March 2017.
- \_\_\_\_\_. 2018a. *Meteorological Stations and Years of Meteorological Data Available*. Web 2018. Available online at: <https://www.aqmd.gov/home/air-quality/air-quality-data-studies/meteorological-data/aermod-table-1>
- \_\_\_\_\_. 2018b. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) Attainment Status for South Coast Air Basin. 2018. <https://www.aqmd.gov/home/air-quality/clean-air-plans>
- \_\_\_\_\_. 2019b. *SCAQMD Air Quality Significance Thresholds*. Diamond Bar, CA. Revised April 2019. Available online at: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2>
- \_\_\_\_\_. 2021a. Multiple Air Toxics Exposure Study V (MATES V). Web: <http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-v>.
- \_\_\_\_\_. 2021b. MATES Data Visualization. Cancer Risk. 2021. Web. Accessed August 30, 2022. [https://experience.arcgis.com/experience/79d3b6304912414bb21ebdde80100b23/page/Main-Page/?data\\_id=dataSource\\_105-a5ba9580e3aa43508a793fac819a5a4d%3A350&views=Click-tabs-for-other-data%2CCancer-Risk](https://experience.arcgis.com/experience/79d3b6304912414bb21ebdde80100b23/page/Main-Page/?data_id=dataSource_105-a5ba9580e3aa43508a793fac819a5a4d%3A350&views=Click-tabs-for-other-data%2CCancer-Risk)
- \_\_\_\_\_. 2021c. MATES V Multiple Air Toxics Exposure Study in the South Coast AQMD. Final Report. August 2021. <http://www.aqmd.gov/docs/default-source/planning/mates-v/mates-v-final-report-9-24-21.pdf?sfvrsn=6>
- \_\_\_\_\_. 2021d. Second Draft Staff Report Proposed Rule 2305 – Warehouse Indirect Source Rule - Warehouse Actions and Investments to Reduce Emissions (WAIRE) Program and Proposed Rule 316 – Fees for Rule 2305. April 2021. [https://www.aqmd.gov/docs/default-source/planning/fbmsm-docs/pr-2305\\_sr\\_2nd-draft\\_4-7-21\\_clean.pdf?sfvrsn=8](https://www.aqmd.gov/docs/default-source/planning/fbmsm-docs/pr-2305_sr_2nd-draft_4-7-21_clean.pdf?sfvrsn=8)
- \_\_\_\_\_. 2022. 2022 Air Quality Management Plan. December 2, 2022. <https://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2022-air-quality-management-plan/final-2022-aqmp/final-2022-aqmp.pdf?sfvrsn=16>
- \_\_\_\_\_. 2024. Historical Data by Year for 2021, 2022, and 2023. <https://www.aqmd.gov/home/air-quality/historical-air-quality-data/historical-data-by-year>
- Southern California Association of Governments (SCAG) 2020. Current Context Demographics and Growth Forecast Technical Report. September 3, 2020. [https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial\\_demographics-and-growth-forecast.pdf?1606001579](https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocial_demographics-and-growth-forecast.pdf?1606001579)
- United States Environmental Protection Agency (U.S. EPA). 2022a. "Ozone Basics." U.S. EPA, Environmental Topics [Air], Ground Level Ozone, What is "good" versus "bad" ozone. Revised

- June 14, 2022. Web. August 19, 2022. <<https://www.epa.gov/ozone-pollution/ozone-basics#what%20where%20how>>
- \_\_\_\_\_ 2022b. "Particulate Matter (PM) Basics." U.S. EPA, Environmental Topics [Air], Particulate Matter (PM), What is PM, and how does it get into the air?. Revised July 18, 2022. Web. August 19, 2022. <<https://www.epa.gov/pm-pollution/particulate-matter-pm-basics#PM>>
- \_\_\_\_\_ 2022c. "Carbon Monoxide (CO) Pollution in Outdoor Air." U.S. EPA, Environmental Topics [Air], Carbon Monoxide (CO), What is CO?. Revised August 2, 2022. Web. August 19, 2022. <<https://www.epa.gov/co-pollution/basic-information-about-carbon-monoxide-co-outdoor-air-pollution#What%20is%20CO>>
- \_\_\_\_\_ 2022d. "Basic Information About NO<sub>2</sub>." U.S. EPA, Environmental Topics [Air], Nitrogen Dioxide (NO<sub>2</sub>), What is NO<sub>2</sub>, and how does it get into the air? August 2, 2022. Web. Revised August 19, 2022. <<https://www.epa.gov/no2-pollution/basic-information-about-no2#What%20is%20NO2>>
- \_\_\_\_\_ 2022e. "Sulfur Dioxide Basics." U.S. EPA, Environmental Topics [Air], Sulfur Dioxide (SO<sub>2</sub>), What is SO<sub>2</sub>, and how does it get into the air? Revised March 9, 2022. Web. August 19, 2022. <<https://www.epa.gov/so2-pollution/sulfur-dioxide-basics#what%20is%20so2>>
- \_\_\_\_\_ 2023. User's Guide for the AMS/EPA Regulatory Model (AERMOD). October 2023. [https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod\\_userguide.pdf](https://gaftp.epa.gov/Air/aqmg/SCRAM/models/preferred/aermod/aermod_userguide.pdf)
- Western Regional Climate Center (WRCC). 2006. "Period of Record Monthly Climate Summary". *Sun City, California (048655)*. Accessed July 1, 2024. <https://wrcc.dri.edu/cgi-bin/cliMAIN.pl?ca8655>

*This page intentionally left blank.*

## **APPENDIX A: CalEEMod Output Files**

*This page intentionally left blank.*

# PEMCOR Business Park - Menifee Detailed Report

## Table of Contents

1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
2. Emissions Summary
  - 2.1. Construction Emissions Compared Against Thresholds
  - 2.2. Construction Emissions by Year, Unmitigated
  - 2.3. Construction Emissions by Year, Mitigated
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
  - 2.6. Operations Emissions by Sector, Mitigated
3. Construction Emissions Details
  - 3.1. Demolition (2025) - Unmitigated
  - 3.2. Demolition (2025) - Mitigated
  - 3.3. Site Preparation (2025) - Unmitigated

3.4. Site Preparation (2025) - Mitigated

3.5. Grading (2025) - Unmitigated

3.6. Grading (2025) - Mitigated

3.7. Building Construction (2025) - Unmitigated

3.8. Building Construction (2025) - Mitigated

3.9. Building Construction (2026) - Unmitigated

3.10. Building Construction (2026) - Mitigated

3.11. Paving (2026) - Unmitigated

3.12. Paving (2026) - Mitigated

3.13. Architectural Coating (2026) - Unmitigated

3.14. Architectural Coating (2026) - Mitigated

#### 4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	PEMCOR Business Park - Menifee
Construction Start Date	1/1/2025
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	18.6
Location	33521 Zeiders Rd, Menifee, CA 92584, USA
County	Riverside-South Coast
City	Menifee
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5536
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	338	1000sqft	7.09	337,770	0.00	—	—	—

Parking Lot	12.9	Acre	12.9	0.00	0.00	—	—	—
-------------	------	------	------	------	------	---	---	---

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-13	Use Low-VOC Paints for Construction

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	165	165	30.3	30.0	0.06	1.24	2.78	4.03	1.15	1.05	2.19	—	7,373	7,373	0.29	0.35	12.2	7,424
Mit.	23.8	23.7	30.3	30.0	0.06	1.24	2.78	4.03	1.15	1.05	2.19	—	7,373	7,373	0.29	0.35	12.2	7,424
% Reduced	86%	86%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.02	3.38	31.7	31.2	0.06	1.37	5.34	6.71	1.26	2.68	3.94	—	7,350	7,350	0.29	0.35	0.32	7,400
Mit.	4.02	3.38	31.7	31.2	0.06	1.37	5.34	6.71	1.26	2.68	3.94	—	7,350	7,350	0.29	0.35	0.32	7,400
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.76	9.65	13.7	18.9	0.03	0.52	1.65	2.17	0.48	0.47	0.95	—	4,617	4,617	0.18	0.21	2.91	4,685
Mit.	2.03	1.93	13.7	18.9	0.03	0.52	1.65	2.17	0.48	0.47	0.95	—	4,617	4,617	0.18	0.21	2.91	4,685

% Reduced	79%	80%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.78	1.76	2.50	3.44	0.01	0.10	0.30	0.40	0.09	0.09	0.17	—	764	764	0.03	0.03	0.48	776
Mit.	0.37	0.35	2.50	3.44	0.01	0.10	0.30	0.40	0.09	0.09	0.17	—	764	764	0.03	0.03	0.48	776
% Reduced	79%	80%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.93	3.29	30.3	30.0	0.06	1.24	2.78	4.03	1.15	1.05	2.19	—	7,373	7,373	0.29	0.35	12.2	7,424
2026	165	165	15.3	27.8	0.04	0.52	2.33	2.85	0.48	0.57	1.05	—	6,770	6,770	0.25	0.35	11.2	6,892
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.02	3.38	31.7	31.2	0.06	1.37	5.34	6.71	1.26	2.68	3.94	—	7,350	7,350	0.29	0.35	0.32	7,400
2026	2.39	2.00	15.4	25.3	0.04	0.52	2.33	2.85	0.48	0.57	1.05	—	6,614	6,614	0.19	0.35	0.29	6,724
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.98	1.66	13.7	18.9	0.03	0.52	1.65	2.17	0.48	0.47	0.95	—	4,617	4,617	0.18	0.21	2.91	4,685
2026	9.76	9.65	4.23	7.02	0.01	0.15	0.59	0.74	0.14	0.14	0.28	—	1,744	1,744	0.05	0.09	1.23	1,773
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.36	0.30	2.50	3.44	0.01	0.10	0.30	0.40	0.09	0.09	0.17	—	764	764	0.03	0.03	0.48	776
2026	1.78	1.76	0.77	1.28	< 0.005	0.03	0.11	0.14	0.02	0.03	0.05	—	289	289	0.01	0.01	0.20	294

### 2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	3.93	3.29	30.3	30.0	0.06	1.24	2.78	4.03	1.15	1.05	2.19	—	7,373	7,373	0.29	0.35	12.2	7,424
2026	23.8	23.7	15.3	27.8	0.04	0.52	2.33	2.85	0.48	0.57	1.05	—	6,770	6,770	0.25	0.35	11.2	6,892
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	4.02	3.38	31.7	31.2	0.06	1.37	5.34	6.71	1.26	2.68	3.94	—	7,350	7,350	0.29	0.35	0.32	7,400
2026	2.39	2.00	15.4	25.3	0.04	0.52	2.33	2.85	0.48	0.57	1.05	—	6,614	6,614	0.19	0.35	0.29	6,724
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.98	1.66	13.7	18.9	0.03	0.52	1.65	2.17	0.48	0.47	0.95	—	4,617	4,617	0.18	0.21	2.91	4,685
2026	2.03	1.93	4.23	7.02	0.01	0.15	0.59	0.74	0.14	0.14	0.28	—	1,744	1,744	0.05	0.09	1.23	1,773
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.36	0.30	2.50	3.44	0.01	0.10	0.30	0.40	0.09	0.09	0.17	—	764	764	0.03	0.03	0.48	776
2026	0.37	0.35	0.77	1.28	< 0.005	0.03	0.11	0.14	0.02	0.03	0.05	—	289	289	0.01	0.01	0.20	294

### 2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.0	19.2	28.7	167	0.53	0.68	38.9	39.5	0.65	9.90	10.5	375	62,219	62,594	40.0	3.96	254	65,028
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	18.1	16.5	30.2	123	0.50	0.66	38.9	39.5	0.63	9.90	10.5	375	59,568	59,943	40.0	4.01	92.2	62,232
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.9	18.1	30.7	138	0.50	0.67	38.4	39.1	0.64	9.78	10.4	375	59,982	60,357	40.0	4.03	160	62,719
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.63	3.30	5.61	25.2	0.09	0.12	7.01	7.13	0.12	1.79	1.90	62.2	9,931	9,993	6.63	0.67	26.4	10,384

## 2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.98	8.48	26.1	150	0.51	0.46	38.9	39.3	0.44	9.90	10.3	—	52,611	52,611	1.23	3.51	166	53,854
Area	10.8	10.6	0.12	14.7	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Energy	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	9,043	9,043	0.84	0.08	—	9,086
Water	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149
Waste	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9
Total	21.0	19.2	28.7	167	0.53	0.68	38.9	39.5	0.65	9.90	10.5	375	62,219	62,594	40.0	3.96	254	65,028
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.65	8.17	27.7	121	0.48	0.47	38.9	39.3	0.44	9.90	10.3	—	50,021	50,021	1.24	3.57	4.30	51,119
Area	8.17	8.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	9,043	9,043	0.84	0.08	—	9,086
Water	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149
Waste	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9

Total	18.1	16.5	30.2	123	0.50	0.66	38.9	39.5	0.63	9.90	10.5	375	59,568	59,943	40.0	4.01	92.2	62,232
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.63	8.14	28.1	126	0.49	0.46	38.4	38.9	0.44	9.78	10.2	—	50,394	50,394	1.24	3.58	71.6	51,564
Area	9.96	9.83	0.08	10.1	< 0.005	0.02	—	0.02	0.01	—	0.01	—	41.4	41.4	< 0.005	< 0.005	—	41.5
Energy	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	9,043	9,043	0.84	0.08	—	9,086
Water	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149
Waste	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9
Total	19.9	18.1	30.7	138	0.50	0.67	38.4	39.1	0.64	9.78	10.4	375	59,982	60,357	40.0	4.03	160	62,719
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.76	1.49	5.14	22.9	0.09	0.08	7.01	7.09	0.08	1.79	1.87	—	8,343	8,343	0.21	0.59	11.9	8,537
Area	1.82	1.79	0.02	1.84	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.85	6.85	< 0.005	< 0.005	—	6.87
Energy	0.05	0.03	0.46	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,497	1,497	0.14	0.01	—	1,504
Water	—	—	—	—	—	—	—	—	—	—	—	24.8	83.5	108	2.55	0.06	—	190
Waste	—	—	—	—	—	—	—	—	—	—	—	37.4	0.00	37.4	3.74	0.00	—	131
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.6	14.6
Total	3.63	3.30	5.61	25.2	0.09	0.12	7.01	7.13	0.12	1.79	1.90	62.2	9,931	9,993	6.63	0.67	26.4	10,384

## 2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.98	8.48	26.1	150	0.51	0.46	38.9	39.3	0.44	9.90	10.3	—	52,611	52,611	1.23	3.51	166	53,854
Area	10.8	10.6	0.12	14.7	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Energy	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	9,043	9,043	0.84	0.08	—	9,086
Water	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149

PEMCOR Business Park - Menifee Detailed Report, 9/12/2024

Waste	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9
Total	21.0	19.2	28.7	167	0.53	0.68	38.9	39.5	0.65	9.90	10.5	375	62,219	62,594	40.0	3.96	254	65,028
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.65	8.17	27.7	121	0.48	0.47	38.9	39.3	0.44	9.90	10.3	—	50,021	50,021	1.24	3.57	4.30	51,119
Area	8.17	8.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	9,043	9,043	0.84	0.08	—	9,086
Water	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149
Waste	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9
Total	18.1	16.5	30.2	123	0.50	0.66	38.9	39.5	0.63	9.90	10.5	375	59,568	59,943	40.0	4.01	92.2	62,232
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	9.63	8.14	28.1	126	0.49	0.46	38.4	38.9	0.44	9.78	10.2	—	50,394	50,394	1.24	3.58	71.6	51,564
Area	9.96	9.83	0.08	10.1	< 0.005	0.02	—	0.02	0.01	—	0.01	—	41.4	41.4	< 0.005	< 0.005	—	41.5
Energy	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	9,043	9,043	0.84	0.08	—	9,086
Water	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149
Waste	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9
Total	19.9	18.1	30.7	138	0.50	0.67	38.4	39.1	0.64	9.78	10.4	375	59,982	60,357	40.0	4.03	160	62,719
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.76	1.49	5.14	22.9	0.09	0.08	7.01	7.09	0.08	1.79	1.87	—	8,343	8,343	0.21	0.59	11.9	8,537
Area	1.82	1.79	0.02	1.84	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.85	6.85	< 0.005	< 0.005	—	6.87
Energy	0.05	0.03	0.46	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,497	1,497	0.14	0.01	—	1,504
Water	—	—	—	—	—	—	—	—	—	—	—	24.8	83.5	108	2.55	0.06	—	190
Waste	—	—	—	—	—	—	—	—	—	—	—	37.4	0.00	37.4	3.74	0.00	—	131
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.6	14.6

Total	3.63	3.30	5.61	25.2	0.09	0.12	7.01	7.13	0.12	1.79	1.90	62.2	9,931	9,993	6.63	0.67	26.4	10,384
-------	------	------	------	------	------	------	------	------	------	------	------	------	-------	-------	------	------	------	--------

### 3. Construction Emissions Details

#### 3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.86	2.40	22.2	19.9	0.03	0.92	—	0.92	0.84	—	0.84	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.15	0.15	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.09	< 0.005	0.05	—	0.05	0.05	—	0.05	—	188	188	0.01	< 0.005	—	188
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.03	0.02	0.22	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.88	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	194	194	0.01	0.01	0.02	197
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	121	121	< 0.005	0.02	0.01	126
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.02	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.61	6.61	< 0.005	< 0.005	0.01	6.93
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.79	1.79	< 0.005	< 0.005	< 0.005	1.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.15

### 3.2. Demolition (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.86	2.40	22.2	19.9	0.03	0.92	—	0.92	0.84	—	0.84	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.15	0.15	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.13	1.22	1.09	< 0.005	0.05	—	0.05	0.05	—	0.05	—	188	188	0.01	< 0.005	—	188
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.22	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	—	31.2
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.88	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	194	194	0.01	0.01	0.02	197
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.14	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	121	121	< 0.005	0.02	0.01	126
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.8	10.8	< 0.005	< 0.005	0.02	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.61	6.61	< 0.005	< 0.005	0.01	6.93
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.79	1.79	< 0.005	< 0.005	< 0.005	1.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.09	1.09	< 0.005	< 0.005	< 0.005	1.15

### 3.3. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.94	3.31	31.6	30.2	0.05	1.37	—	1.37	1.26	—	1.26	—	5,295	5,295	0.21	0.04	—	5,314

Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.87	0.83	< 0.005	0.04	—	0.04	0.03	—	0.03	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	1.02	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	227	227	0.01	0.01	0.02	230

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.29	6.29	< 0.005	< 0.005	0.01	6.38
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	< 0.005	1.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.4. Site Preparation (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.94	3.31	31.6	30.2	0.05	1.37	—	1.37	1.26	—	1.26	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.87	0.83	< 0.005	0.04	—	0.04	0.03	—	0.03	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.15	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.08	1.02	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	227	227	0.01	0.01	0.02	230
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.29	6.29	< 0.005	< 0.005	0.01	6.38

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.04	1.04	< 0.005	< 0.005	< 0.005	1.06
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622

Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.31	2.85	2.71	0.01	0.12	—	0.12	0.11	—	0.11	—	633	633	0.03	0.01	—	635
Dust From Material Movement	—	—	—	—	—	—	0.23	0.23	—	0.09	0.09	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.52	0.50	< 0.005	0.02	—	0.02	0.02	—	0.02	—	105	105	< 0.005	< 0.005	—	105
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.09	1.54	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	282	282	0.01	0.01	1.04	286
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.55	0.13	< 0.005	0.01	0.13	0.14	0.01	0.04	0.05	—	492	492	0.01	0.08	1.05	517

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.10	1.17	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	259	259	0.01	0.01	0.03	262
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.57	0.14	< 0.005	0.01	0.13	0.14	0.01	0.04	0.05	—	493	493	0.01	0.08	0.03	516
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	25.2	25.2	< 0.005	< 0.005	0.04	25.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.06	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	47.2	47.2	< 0.005	0.01	0.04	49.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.17	4.17	< 0.005	< 0.005	0.01	4.23
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.82	7.82	< 0.005	< 0.005	0.01	8.19

### 3.6. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.80	3.20	29.7	28.3	0.06	1.23	—	1.23	1.14	—	1.14	—	6,599	6,599	0.27	0.05	—	6,622	
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.31	2.85	2.71	0.01	0.12	—	0.12	0.11	—	0.11	—	633	633	0.03	0.01	—	635	
Dust From Material Movement	—	—	—	—	—	—	0.23	0.23	—	0.09	0.09	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.52	0.50	< 0.005	0.02	—	0.02	0.02	—	0.02	—	105	105	< 0.005	< 0.005	—	105	
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.09	0.09	1.54	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	282	282	0.01	0.01	1.04	286
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.55	0.13	< 0.005	0.01	0.13	0.14	0.01	0.04	0.05	—	492	492	0.01	0.08	1.05	517
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.10	1.17	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	259	259	0.01	0.01	0.03	262
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	0.01	0.57	0.14	< 0.005	0.01	0.13	0.14	0.01	0.04	0.05	—	493	493	0.01	0.08	0.03	516
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	25.2	25.2	< 0.005	< 0.005	0.04	25.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.06	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	47.2	47.2	< 0.005	0.01	0.04	49.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.17	4.17	< 0.005	< 0.005	0.01	4.23
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.82	7.82	< 0.005	< 0.005	0.01	8.19

### 3.7. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	1.77	1.48	13.7	17.1	0.03	0.57	—	0.57	0.52	—	0.52	—	3,148	3,148	0.13	0.03	—	3,159
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.77	1.48	13.7	17.1	0.03	0.57	—	0.57	0.52	—	0.52	—	3,148	3,148	0.13	0.03	—	3,159
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.78	7.27	9.08	0.02	0.30	—	0.30	0.28	—	0.28	—	1,669	1,669	0.07	0.01	—	1,675
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.33	1.66	< 0.005	0.05	—	0.05	0.05	—	0.05	—	276	276	0.01	< 0.005	—	277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.76	0.63	0.62	11.0	0.00	0.00	1.85	1.85	0.00	0.43	0.43	—	1,999	1,999	0.08	0.07	7.35	2,030
Vendor	0.08	0.04	1.86	0.58	0.01	0.02	0.47	0.50	0.02	0.13	0.16	—	1,694	1,694	0.04	0.26	4.81	1,776
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.67	0.60	0.68	8.28	0.00	0.00	1.85	1.85	0.00	0.43	0.43	—	1,838	1,838	0.09	0.07	0.19	1,861
Vendor	0.07	0.03	1.95	0.59	0.01	0.02	0.47	0.50	0.02	0.13	0.16	—	1,695	1,695	0.04	0.26	0.12	1,773
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.35	0.31	0.39	4.64	0.00	0.00	0.97	0.97	0.00	0.23	0.23	—	987	987	0.05	0.04	1.68	1,001
Vendor	0.04	0.02	1.03	0.31	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	898	898	0.02	0.14	1.10	941
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.85	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	163	163	0.01	0.01	0.28	166
Vendor	0.01	< 0.005	0.19	0.06	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	149	149	< 0.005	0.02	0.18	156
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.8. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.77	1.48	13.7	17.1	0.03	0.57	—	0.57	0.52	—	0.52	—	3,148	3,148	0.13	0.03	—	3,159
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.77	1.48	13.7	17.1	0.03	0.57	—	0.57	0.52	—	0.52	—	3,148	3,148	0.13	0.03	—	3,159
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.78	7.27	9.08	0.02	0.30	—	0.30	0.28	—	0.28	—	1,669	1,669	0.07	0.01	—	1,675
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.33	1.66	< 0.005	0.05	—	0.05	0.05	—	0.05	—	276	276	0.01	< 0.005	—	277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.76	0.63	0.62	11.0	0.00	0.00	1.85	1.85	0.00	0.43	0.43	—	1,999	1,999	0.08	0.07	7.35	2,030
Vendor	0.08	0.04	1.86	0.58	0.01	0.02	0.47	0.50	0.02	0.13	0.16	—	1,694	1,694	0.04	0.26	4.81	1,776
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.67	0.60	0.68	8.28	0.00	0.00	1.85	1.85	0.00	0.43	0.43	—	1,838	1,838	0.09	0.07	0.19	1,861
Vendor	0.07	0.03	1.95	0.59	0.01	0.02	0.47	0.50	0.02	0.13	0.16	—	1,695	1,695	0.04	0.26	0.12	1,773
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.35	0.31	0.39	4.64	0.00	0.00	0.97	0.97	0.00	0.23	0.23	—	987	987	0.05	0.04	1.68	1,001
Vendor	0.04	0.02	1.03	0.31	0.01	0.01	0.25	0.26	0.01	0.07	0.08	—	898	898	0.02	0.14	1.10	941
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.85	0.00	0.00	0.18	0.18	0.00	0.04	0.04	—	163	163	0.01	0.01	0.28	166
Vendor	0.01	< 0.005	0.19	0.06	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	149	149	< 0.005	0.02	0.18	156
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.68	1.40	12.9	17.0	0.03	0.50	—	0.50	0.46	—	0.46	—	3,147	3,147	0.13	0.03	—	3,158
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.68	1.40	12.9	17.0	0.03	0.50	—	0.50	0.46	—	0.46	—	3,147	3,147	0.13	0.03	—	3,158
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.41	0.34	3.16	4.16	0.01	0.12	—	0.12	0.11	—	0.11	—	770	770	0.03	0.01	—	773
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.58	0.76	< 0.005	0.02	—	0.02	0.02	—	0.02	—	127	127	0.01	< 0.005	—	128
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.67	0.60	0.56	10.2	0.00	0.00	1.85	1.85	0.00	0.43	0.43	—	1,956	1,956	0.08	0.07	6.63	1,985
Vendor	0.08	0.04	1.78	0.55	0.01	0.02	0.47	0.50	0.02	0.13	0.16	—	1,666	1,666	0.04	0.26	4.56	1,749
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.64	0.57	0.62	7.73	0.00	0.00	1.85	1.85	0.00	0.43	0.43	—	1,799	1,799	0.03	0.07	0.17	1,821
Vendor	0.07	0.03	1.86	0.57	0.01	0.02	0.47	0.50	0.02	0.13	0.16	—	1,668	1,668	0.04	0.26	0.12	1,745
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.17	1.98	0.00	0.00	0.45	0.45	0.00	0.10	0.10	—	446	446	0.01	0.02	0.70	452
Vendor	0.02	0.01	0.46	0.14	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	408	408	0.01	0.06	0.48	427
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.36	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	73.8	73.8	< 0.005	< 0.005	0.12	74.8
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	67.5	67.5	< 0.005	0.01	0.08	70.7

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
---------	------	------	------	------	------	------	------	------	------	------	------	------	---	------	------	------	------	------	------

### 3.10. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.68	1.40	12.9	17.0	0.03	0.50	—	0.50	0.46	—	0.46	—	3,147	3,147	0.13	0.03	—	3,158	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.68	1.40	12.9	17.0	0.03	0.50	—	0.50	0.46	—	0.46	—	3,147	3,147	0.13	0.03	—	3,158	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.34	3.16	4.16	0.01	0.12	—	0.12	0.11	—	0.11	—	770	770	0.03	0.01	—	773	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.07	0.06	0.58	0.76	< 0.005	0.02	—	0.02	0.02	—	0.02	—	127	127	0.01	< 0.005	—	128
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.67	0.60	0.56	10.2	0.00	0.00	1.85	1.85	0.00	0.43	0.43	—	1,956	1,956	0.08	0.07	6.63	1,985
Vendor	0.08	0.04	1.78	0.55	0.01	0.02	0.47	0.50	0.02	0.13	0.16	—	1,666	1,666	0.04	0.26	4.56	1,749
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.64	0.57	0.62	7.73	0.00	0.00	1.85	1.85	0.00	0.43	0.43	—	1,799	1,799	0.03	0.07	0.17	1,821
Vendor	0.07	0.03	1.86	0.57	0.01	0.02	0.47	0.50	0.02	0.13	0.16	—	1,668	1,668	0.04	0.26	0.12	1,745
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.17	1.98	0.00	0.00	0.45	0.45	0.00	0.10	0.10	—	446	446	0.01	0.02	0.70	452
Vendor	0.02	0.01	0.46	0.14	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	408	408	0.01	0.06	0.48	427
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.36	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	73.8	73.8	< 0.005	< 0.005	0.12	74.8
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	67.5	67.5	< 0.005	0.01	0.08	70.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.11. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	7.12	9.94	0.01	0.32	—	0.32	0.29	—	0.29	—	1,511	1,511	0.06	0.01	—	1,516
Paving	1.70	1.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.39	0.54	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.07	0.06	0.06	1.08	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	207	207	0.01	0.01	0.70	210
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.02	10.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.75	1.75	< 0.005	< 0.005	< 0.005	1.77
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.12. Paving (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.91	0.76	7.12	9.94	0.01	0.32	—	0.32	0.29	—	0.29	—	1,511	1,511	0.06	0.01	—	1,516
Paving	1.70	1.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.39	0.54	< 0.005	0.02	—	0.02	0.02	—	0.02	—	82.8	82.8	< 0.005	< 0.005	—	83.1
Paving	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.7	13.7	< 0.005	< 0.005	—	13.8
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.06	1.08	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	207	207	0.01	0.01	0.70	210
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.6	10.6	< 0.005	< 0.005	0.02	10.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.75	1.75	< 0.005	< 0.005	< 0.005	1.77
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.13. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	164	164	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34

Architectural Coating	9.01	9.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	1.64	1.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.11	2.04	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	391	391	0.02	0.01	1.33	397
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.0	20.0	< 0.005	< 0.005	0.03	20.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.31	3.31	< 0.005	< 0.005	0.01	3.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
---------	------	------	------	------	------	------	------	------	------	------	------	------	---	------	------	------	------	------	------

### 3.14. Architectural Coating (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	23.5	23.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	1.29	1.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.12	0.11	2.04	0.00	0.00	0.37	0.37	0.00	0.09	0.09	—	391	391	0.02	0.01	1.33	397
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	20.0	20.0	< 0.005	< 0.005	0.03	20.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.31	3.31	< 0.005	< 0.005	0.01	3.35
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

### 4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	9.14	8.01	6.51	145	0.33	0.14	32.9	33.0	0.12	8.30	8.42	—	33,627	33,627	0.90	0.67	112	33,961
Parking Lot	0.84	0.47	19.6	5.62	0.18	0.33	5.98	6.31	0.32	1.60	1.92	—	18,984	18,984	0.32	2.85	54.3	19,894
Total	9.98	8.48	26.1	150	0.51	0.46	38.9	39.3	0.44	9.90	10.3	—	52,611	52,611	1.23	3.51	166	53,854
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	8.83	7.71	7.25	115	0.31	0.14	32.9	33.0	0.12	8.30	8.42	—	31,032	31,032	0.91	0.72	2.89	31,272
Parking Lot	0.82	0.45	20.4	5.65	0.18	0.33	5.98	6.31	0.32	1.60	1.92	—	18,989	18,989	0.32	2.85	1.41	19,847
Total	9.65	8.17	27.7	121	0.48	0.47	38.9	39.3	0.44	9.90	10.3	—	50,021	50,021	1.24	3.57	4.30	51,119
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.61	1.40	1.37	21.9	0.06	0.02	5.93	5.95	0.02	1.50	1.52	—	5,200	5,200	0.15	0.12	7.98	5,248
Parking Lot	0.15	0.08	3.77	1.02	0.03	0.06	1.08	1.14	0.06	0.29	0.35	—	3,143	3,143	0.05	0.47	3.88	3,289
Total	1.76	1.49	5.14	22.9	0.09	0.08	7.01	7.09	0.08	1.79	1.87	—	8,343	8,343	0.21	0.59	11.9	8,537

### 4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	9.14	8.01	6.51	145	0.33	0.14	32.9	33.0	0.12	8.30	8.42	—	33,627	33,627	0.90	0.67	112	33,961
Parking Lot	0.84	0.47	19.6	5.62	0.18	0.33	5.98	6.31	0.32	1.60	1.92	—	18,984	18,984	0.32	2.85	54.3	19,894
Total	9.98	8.48	26.1	150	0.51	0.46	38.9	39.3	0.44	9.90	10.3	—	52,611	52,611	1.23	3.51	166	53,854
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	8.83	7.71	7.25	115	0.31	0.14	32.9	33.0	0.12	8.30	8.42	—	31,032	31,032	0.91	0.72	2.89	31,272
Parking Lot	0.82	0.45	20.4	5.65	0.18	0.33	5.98	6.31	0.32	1.60	1.92	—	18,989	18,989	0.32	2.85	1.41	19,847
Total	9.65	8.17	27.7	121	0.48	0.47	38.9	39.3	0.44	9.90	10.3	—	50,021	50,021	1.24	3.57	4.30	51,119
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	1.61	1.40	1.37	21.9	0.06	0.02	5.93	5.95	0.02	1.50	1.52	—	5,200	5,200	0.15	0.12	7.98	5,248
Parking Lot	0.15	0.08	3.77	1.02	0.03	0.06	1.08	1.14	0.06	0.29	0.35	—	3,143	3,143	0.05	0.47	3.88	3,289
Total	1.76	1.49	5.14	22.9	0.09	0.08	7.01	7.09	0.08	1.79	1.87	—	8,343	8,343	0.21	0.59	11.9	8,537

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	5,588	5,588	0.53	0.06	—	5,621
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	468	468	0.04	0.01	—	471
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,057	6,057	0.58	0.07	—	6,092
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	5,588	5,588	0.53	0.06	—	5,621
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	468	468	0.04	0.01	—	471
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,057	6,057	0.58	0.07	—	6,092
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	925	925	0.09	0.01	—	931
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	77.5	77.5	0.01	< 0.005	—	78.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,003	1,003	0.10	0.01	—	1,009

#### 4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial	—	—	—	—	—	—	—	—	—	—	—	—	5,588	5,588	0.53	0.06	—	5,621
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	468	468	0.04	0.01	—	471
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,057	6,057	0.58	0.07	—	6,092
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	5,588	5,588	0.53	0.06	—	5,621
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	468	468	0.04	0.01	—	471
Total	—	—	—	—	—	—	—	—	—	—	—	—	6,057	6,057	0.58	0.07	—	6,092
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	925	925	0.09	0.01	—	931
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	77.5	77.5	0.01	< 0.005	—	78.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,003	1,003	0.10	0.01	—	1,009

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	2,986	2,986	0.26	0.01	—	2,995
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Total	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	2,986	2,986	0.26	0.01	—	2,995
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	2,986	2,986	0.26	0.01	—	2,995
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	2,986	2,986	0.26	0.01	—	2,995
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.05	0.03	0.46	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	494	494	0.04	< 0.005	—	496
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.05	0.03	0.46	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	494	494	0.04	< 0.005	—	496

#### 4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	2,986	2,986	0.26	0.01	—	2,995
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	2,986	2,986	0.26	0.01	—	2,995
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industria Park	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	2,986	2,986	0.26	0.01	—	2,995
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.28	0.14	2.50	2.10	0.02	0.19	—	0.19	0.19	—	0.19	—	2,986	2,986	0.26	0.01	—	2,995
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industria I Park	0.05	0.03	0.46	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	494	494	0.04	< 0.005	—	496
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.05	0.03	0.46	0.38	< 0.005	0.03	—	0.03	0.03	—	0.03	—	494	494	0.04	< 0.005	—	496

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	7.27	7.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.90	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.61	2.41	0.12	14.7	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Total	10.8	10.6	0.12	14.7	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60.4	60.4	< 0.005	< 0.005	—	60.6

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	7.27	7.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.90	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	8.17	8.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.33	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.16	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.33	0.30	0.02	1.84	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.85	6.85	< 0.005	< 0.005	—	6.87
Total	1.82	1.79	0.02	1.84	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.85	6.85	< 0.005	< 0.005	—	6.87

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	7.27	7.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.90	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.61	2.41	0.12	14.7	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Total	10.8	10.6	0.12	14.7	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60.4	60.4	< 0.005	< 0.005	—	60.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	7.27	7.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.90	0.90	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	8.17	8.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.33	1.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.16	0.16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.33	0.30	0.02	1.84	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.85	6.85	< 0.005	< 0.005	—	6.87

Total	1.82	1.79	0.02	1.84	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.85	6.85	< 0.005	< 0.005	—	6.87
-------	------	------	------	------	---------	---------	---	---------	---------	---	---------	---	------	------	---------	---------	---	------

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.8	83.5	108	2.55	0.06	—	190
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	24.8	83.5	108	2.55	0.06	—	190

### 4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	150	504	654	15.4	0.37	—	1,149
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	24.8	83.5	108	2.55	0.06	—	190
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	24.8	83.5	108	2.55	0.06	—	190

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	37.4	0.00	37.4	3.74	0.00	—	131
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	37.4	0.00	37.4	3.74	0.00	—	131

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	226	0.00	226	22.6	0.00	—	790
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	37.4	0.00	37.4	3.74	0.00	—	131
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	37.4	0.00	37.4	3.74	0.00	—	131

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.6	14.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.6	14.6

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9	
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	87.9	87.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.6	14.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.6	14.6

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
----------------	-----	-----	-----	----	-----	-------	-------	-------	--------	--------	--------	------	-------	------	-----	-----	---	------

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

##### 4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipm ent Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetati on	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

#### 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

## 5. Activity Data

## 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2025	1/29/2025	5.00	20.0	—
Site Preparation	Site Preparation	1/30/2025	2/13/2025	5.00	10.0	—
Grading	Grading	2/14/2025	4/4/2025	5.00	35.0	—
Building Construction	Building Construction	4/5/2025	5/5/2026	5.00	282	—
Paving	Paving	5/6/2026	6/2/2026	5.00	20.0	—
Architectural Coating	Architectural Coating	6/3/2026	6/30/2026	5.00	20.0	—

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	4.00	7.90	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	5.20	14.0	0.74
Building Construction	Cranes	Diesel	Average	2.00	4.60	367	0.29

Building Construction	Welders	Diesel	Average	2.00	5.20	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	4.00	6.90	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

### 5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	4.00	7.90	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	5.20	14.0	0.74
Building Construction	Cranes	Diesel	Average	2.00	4.60	367	0.29
Building Construction	Welders	Diesel	Average	2.00	5.20	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	4.00	6.90	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

### 5.3. Construction Vehicles

#### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	1.75	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	7.14	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	142	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	55.4	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT

Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	28.4	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

### 5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	1.75	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	7.14	20.0	HHDT
Grading	Onsite truck	—	—	HHDT

Building Construction	—	—	—	—
Building Construction	Worker	142	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	55.4	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	28.4	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	506,655	168,885	33,820

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	3,000	—
Site Preparation	—	—	15.0	0.00	—
Grading	—	2,000	105	0.00	—
Paving	0.00	0.00	0.00	0.00	12.9

### 5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

### 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Industrial Park	0.00	0%
Parking Lot	12.9	100%

### 5.8. Construction Electricity Consumption and Emissions Factors

#### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005

### 5.9. Operational Mobile Sources

#### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Industrial Park	1,537	1,537	1,537	561,079	47,192	47,192	47,192	17,225,121

Parking Lot	214	214	214	78,036	6,799	6,799	6,799	2,481,550
-------------	-----	-----	-----	--------	-------	-------	-------	-----------

### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Industrial Park	1,537	1,537	1,537	561,079	47,192	47,192	47,192	17,225,121
Parking Lot	214	214	214	78,036	6,799	6,799	6,799	2,481,550

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

#### 5.10.1.2. Mitigated

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	506,655	168,885	33,820

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Industrial Park	5,891,780	346	0.0330	0.0040	9,317,944
Parking Lot	493,772	346	0.0330	0.0040	0.00

### 5.11.2. Mitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Industrial Park	5,891,780	346	0.0330	0.0040	9,317,944
Parking Lot	493,772	346	0.0330	0.0040	0.00

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Industrial Park	78,109,313	0.00
Parking Lot	0.00	0.00

### 5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Industrial Park	78,109,313	0.00
Parking Lot	0.00	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	419	—
Parking Lot	0.00	—

### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	419	—
Parking Lot	0.00	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
----------------	-----------	-------------	----------------	---------------	------------	-------------

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
----------------	-----------	----------------	---------------	----------------	------------	-------------

### 5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
----------------	-----------	--------	--------------------------	------------------------------	------------------------------

## 5.17. User Defined

Equipment Type	Fuel Type
----------------	-----------

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

#### 5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

#### 5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
-----------	--------	------------------------------	------------------------------

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.6	annual days of extreme heat
Extreme Precipitation	2.85	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	8.86	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi. Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters  
 Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	80.0
AQ-PM	45.6
AQ-DPM	37.6
Drinking Water	71.7
Lead Risk Housing	21.2
Pesticides	53.0
Toxic Releases	14.5
Traffic	78.4
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	0.00
Haz Waste Facilities/Generators	50.1
Impaired Water Bodies	0.00
Solid Waste	35.7

Sensitive Population	—
Asthma	42.6
Cardio-vascular	93.2
Low Birth Weights	14.2
Socioeconomic Factor Indicators	—
Education	40.1
Housing	23.4
Linguistic	1.81
Poverty	34.0
Unemployment	59.4

## 7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	54.26664956
Employed	19.64583601
Median HI	50.78916977
Education	—
Bachelor's or higher	38.73989478
High school enrollment	100
Preschool enrollment	43.68022584
Transportation	—
Auto Access	76.73553189
Active commuting	4.49121006
Social	—
2-parent households	67.88143205
Voting	54.67727448

Neighborhood	—
Alcohol availability	92.14679841
Park access	14.78249711
Retail density	8.161170281
Supermarket access	11.13820095
Tree canopy	6.146541768
Housing	—
Homeownership	90.85076351
Housing habitability	68.00975234
Low-inc homeowner severe housing cost burden	23.40562043
Low-inc renter severe housing cost burden	33.82522777
Uncrowded housing	75.52932119
Health Outcomes	—
Insured adults	75.63197742
Arthritis	11.1
Asthma ER Admissions	66.8
High Blood Pressure	20.6
Cancer (excluding skin)	18.5
Asthma	37.3
Coronary Heart Disease	13.8
Chronic Obstructive Pulmonary Disease	17.9
Diagnosed Diabetes	51.3
Life Expectancy at Birth	48.3
Cognitively Disabled	76.7
Physically Disabled	21.7
Heart Attack ER Admissions	8.3
Mental Health Not Good	43.4
Chronic Kidney Disease	45.1

Obesity	32.0
Pedestrian Injuries	48.4
Physical Health Not Good	40.7
Stroke	29.9
Health Risk Behaviors	—
Binge Drinking	26.9
Current Smoker	33.5
No Leisure Time for Physical Activity	49.0
Climate Change Exposures	—
Wildfire Risk	91.5
SLR Inundation Area	0.0
Children	64.0
Elderly	37.4
English Speaking	92.0
Foreign-born	6.3
Outdoor Workers	15.9
Climate Change Adaptive Capacity	—
Impervious Surface Cover	90.5
Traffic Density	71.2
Traffic Access	23.0
Other Indices	—
Hardship	47.6
Other Decision Support	—
2016 Voting	58.6

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	38.0

Healthy Places Index Score for Project Location (b)	46.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

## 7.4. Health & Equity Measures

No Health & Equity Measures selected.

## 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Project specific conditions per site plan.
Operations: Vehicle Data	Updated per Traffic Scoping Agreement. IP models passenger vehicles, Parking Lot models truck trips. Truck trip length updated based on SCAQMD Rule 2305 Rulemaking materials. Passenger vehicle trip length updated based on
Operations: Fleet Mix	Fleet mix updated to reflect IP modeled as passenger vehicles and PL modeled as trucks. Truck breakdown directly from Ganddini. Passenger veh adjusted based on CMod defaults, removing trucks, buses, and motor homes.
Construction: Construction Phases	Building construction phase compressed to account for 18 month construction timeline as specified by Applicant.
Construction: Off-Road Equipment	Building construction equipment increased to account for compressed construction schedule, compared to CalEEMod defaults.
Operations: Energy Use	—

*This page intentionally left blank.*

## **APPENDIX B: AERMOD Output Files**

*This page intentionally left blank*

```

** Lakes Environmental AERMOD MPI
**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 12.0.0
** Lakes Environmental Software Inc.
** Date: 9/12/2024
** File: C:\Lakes\Menifee_PEMCOR-BP\Menifee_PEMCOR-BP.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\Menifee_PEMCOR-BP\Menifee_PEMCOR-BP.isc
  MODELOPT DFAULT CONC
  AVERTIME PERIOD
  URBANOPT 2189641 Riverside_County
  POLLUTID PM_10
  RUNORNOT RUN
  ERRORFIL Menifee_PEMCOR-BP.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA01      AREAPOLY    483570.850   3721620.955
477.210
** DESCRSRC Y1_On-Demo
  LOCATION PAREA02      AREAPOLY    483311.870   3721620.630
479.330
** DESCRSRC Y1_On-NW
  LOCATION PAREA03      AREAPOLY    483513.800   3721620.630
476.610
** DESCRSRC Y1_On-NE
  LOCATION PAREA04      AREAPOLY    483314.410   3721515.230
481.030
** DESCRSRC Y1_On-SW
  LOCATION PAREA05      AREAPOLY    483514.890   3721518.200
477.670
** DESCRSRC Y1_On-SE
  LOCATION PAREA06      AREAPOLY    483311.870   3721620.630

```

```

479.330
** DESCRSRC Y2_On-NW
   LOCATION PAREA07      AREAPOLY   483513.800  3721620.630
476.610
** DESCRSRC Y2_On-NE
   LOCATION PAREA08      AREAPOLY   483314.410  3721515.230
481.030
** DESCRSRC Y2_On-SW
   LOCATION PAREA09      AREAPOLY   483514.890  3721518.200
477.670
** DESCRSRC Y2_On-SE
** -----

```

-----  
\*\* Line Source Represented by Area Sources

```

** LINE AREA Source ID = ARLN01
** DESCRSRC Y1_Off
** PREFIX
** Length of Side = 13.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 4.047E-10
** Nodes = 7
** 483716.886, 3721514.958, 477.48, 4.12
** 483716.311, 3722431.315, 463.62, 4.12
** 484004.758, 3722445.883, 465.17, 4.12
** 484048.462, 3722339.536, 464.03, 4.12
** 484087.796, 3722202.596, 463.03, 4.12
** 484112.562, 3722081.681, 465.06, 4.12
** 484114.687, 3720835.640, 481.41, 4.12
** -----

```

```

-----
LOCATION A0000001      AREA      483723.386  3721514.962  477.19
LOCATION A0000002      AREA      483723.314  3721629.506  475.73
LOCATION A0000003      AREA      483723.242  3721744.051  475.06
LOCATION A0000004      AREA      483723.170  3721858.596  473.49
LOCATION A0000005      AREA      483723.098  3721973.140  471.01
LOCATION A0000006      AREA      483723.026  3722087.685  469.44
LOCATION A0000007      AREA      483722.954  3722202.229  468.17
LOCATION A0000008      AREA      483722.883  3722316.774  466.67
LOCATION A0000009      AREA      483716.638  3722424.823  463.88
LOCATION A0000010      AREA      483812.788  3722429.679  464.33
LOCATION A0000011      AREA      483908.937  3722434.535  464.98
LOCATION A0000012      AREA      483998.746  3722443.412  464.01
LOCATION A0000013      AREA      484042.215  3722337.741  464.81
LOCATION A0000014      AREA      484061.882  3722269.271  462.81
LOCATION A0000015      AREA      484081.428  3722201.292  462.80
LOCATION A0000016      AREA      484106.062  3722081.670  464.88
LOCATION A0000017      AREA      484106.274  3721957.066  466.88
LOCATION A0000018      AREA      484106.487  3721832.462  468.79
LOCATION A0000019      AREA      484106.699  3721707.858  470.39
LOCATION A0000020      AREA      484106.912  3721583.254  472.11
LOCATION A0000021      AREA      484107.124  3721458.650  474.12

```

```

LOCATION A0000022      AREA      484107.337 3721334.045 476.43
LOCATION A0000023      AREA      484107.549 3721209.441 477.61
LOCATION A0000024      AREA      484107.762 3721084.837 479.17
LOCATION A0000025      AREA      484107.974 3720960.233 481.04
** End of LINE AREA Source ID = ARLN01
** -----
-----
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN02
** DESCRSRC Y2_Off
** PREFIX
** Length of Side = 13.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 2.7053E-10
** Nodes = 7
** 483716.890, 3721514.960, 477.48, 4.12
** 483716.310, 3722431.310, 463.62, 4.12
** 484004.760, 3722445.880, 465.17, 4.12
** 484048.460, 3722339.540, 464.03, 4.12
** 484087.800, 3722202.600, 463.03, 4.12
** 484112.560, 3722081.680, 465.06, 4.12
** 484114.690, 3720835.640, 481.41, 4.12
** -----
-----
LOCATION A0000026      AREA      483723.390 3721514.964 477.19
LOCATION A0000027      AREA      483723.317 3721629.508 475.73
LOCATION A0000028      AREA      483723.245 3721744.052 475.06
LOCATION A0000029      AREA      483723.172 3721858.595 473.49
LOCATION A0000030      AREA      483723.100 3721973.139 471.01
LOCATION A0000031      AREA      483723.027 3722087.683 469.44
LOCATION A0000032      AREA      483722.955 3722202.227 468.17
LOCATION A0000033      AREA      483722.882 3722316.770 466.67
LOCATION A0000034      AREA      483716.638 3722424.818 463.88
LOCATION A0000035      AREA      483812.788 3722429.675 464.33
LOCATION A0000036      AREA      483908.938 3722434.532 464.98
LOCATION A0000037      AREA      483998.748 3722443.409 464.01
LOCATION A0000038      AREA      484042.213 3722337.745 464.81
LOCATION A0000039      AREA      484061.883 3722269.275 462.81
LOCATION A0000040      AREA      484081.432 3722201.296 462.80
LOCATION A0000041      AREA      484106.060 3722081.669 464.88
LOCATION A0000042      AREA      484106.273 3721957.065 466.88
LOCATION A0000043      AREA      484106.486 3721832.461 468.79
LOCATION A0000044      AREA      484106.699 3721707.857 470.39
LOCATION A0000045      AREA      484106.912 3721583.253 472.11
LOCATION A0000046      AREA      484107.125 3721458.649 474.12
LOCATION A0000047      AREA      484107.338 3721334.045 476.43
LOCATION A0000048      AREA      484107.551 3721209.441 477.61
LOCATION A0000049      AREA      484107.764 3721084.837 479.17
LOCATION A0000050      AREA      484107.977 3720960.233 481.04
** End of LINE AREA Source ID = ARLN02
LOCATION STCK01        POINT      483447.581 3721532.167

```

479.380	** DESCRSRC	Ops_Build-D_1			
	LOCATION	STCK02	POINT	483452.068	3721532.111
479.300	** DESCRSRC	Ops_Build-D_2			
	LOCATION	STCK03	POINT	483513.644	3721532.218
477.420	** DESCRSRC	Ops_Build-E_1			
	LOCATION	STCK04	POINT	483517.895	3721532.302
477.380	** DESCRSRC	Ops_Build-E_2			
	LOCATION	STCK05	POINT	483574.658	3721532.528
479.040	** DESCRSRC	Ops_Build-F_1			
	LOCATION	STCK06	POINT	483579.100	3721532.606
479.070	** DESCRSRC	Ops_Build-F_2			
	LOCATION	STCK07	POINT	483635.021	3721562.192
480.410	** DESCRSRC	Ops_Build-J_1			
	LOCATION	STCK08	POINT	483635.255	3721557.828
480.410	** DESCRSRC	Ops_Build-J_2			
	LOCATION	STCK09	POINT	483635.122	3721479.990
479.260	** DESCRSRC	Ops_Build-K_1			
	LOCATION	STCK10	POINT	483635.266	3721476.065
479.280	** DESCRSRC	Ops_Build-K_2			
	LOCATION	STCK11	POINT	483574.696	3721501.828
480.040	** DESCRSRC	Ops_Build-I_1			
	LOCATION	STCK12	POINT	483578.983	3721501.750
480.000	** DESCRSRC	Ops_Build-I_2			
	LOCATION	STCK13	POINT	483513.505	3721501.837
477.870	** DESCRSRC	Ops_Build-H_1			
	LOCATION	STCK14	POINT	483517.981	3721501.857
477.940	** DESCRSRC	Ops_Build-H_2			
	LOCATION	STCK15	POINT	483447.720	3721501.619
479.640	** DESCRSRC	Ops_Build-G_1			
	LOCATION	STCK16	POINT	483452.160	3721501.619
479.550	** DESCRSRC	Ops_Build-G_2			
	LOCATION	STCK17	POINT	483386.399	3721468.660
480.170	** DESCRSRC	Ops_Build-C_1			
	LOCATION	STCK18	POINT	483386.351	3721464.830
480.300					

** DESCRSRC	Ops_Build-C_2				
LOCATION	STCK19	POINT	483386.623	3721519.378	
	479.310				
** DESCRSRC	Ops_Build-B_1				
LOCATION	STCK20	POINT	483386.692	3721515.331	
	479.390				
** DESCRSRC	Ops_Build-B_2				
LOCATION	STCK21	POINT	483386.772	3721569.902	
	478.590				
** DESCRSRC	Ops_Build-A_1				
LOCATION	STCK22	POINT	483386.731	3721565.872	
	478.650				
** DESCRSRC	Ops_Build-A_2				
LOCATION	VOL01	VOLUME	483711.570	3721418.350	
	479.620				
** DESCRSRC	Drive_Entry-Isle_1				
LOCATION	VOL02	VOLUME	483698.979	3721417.782	
	480.200				
** DESCRSRC	Drive_Entry-Isle_2				
LOCATION	VOL03	VOLUME	483686.672	3721417.782	
	480.220				
** DESCRSRC	Drive_Entry-Isle_3				
LOCATION	VOL04	VOLUME	483674.937	3721417.782	
	480.160				
** DESCRSRC	Drive_Entry-Isle_4				
LOCATION	VOL05	VOLUME	483663.489	3721417.210	
	480.080				
** DESCRSRC	Drive_Entry-Isle_5				
LOCATION	VOL06	VOLUME	483651.468	3721417.782	
	480.050				
** DESCRSRC	Drive_Entry-Isle_6				
LOCATION	VOL07	VOLUME	483639.733	3721417.782	
	480.150				
** DESCRSRC	Drive_Entry-Isle_7				
LOCATION	VOL08	VOLUME	483627.713	3721421.216	
	480.310				
** DESCRSRC	Drive_Entry-Isle_8				
LOCATION	VOL09	VOLUME	483621.702	3721433.237	
	480.320				
** DESCRSRC	Drive_Entry-Isle_9				
LOCATION	VOL10	VOLUME	483621.988	3721445.544	
	480.080				
** DESCRSRC	Drive_Entry-Isle_10				
LOCATION	VOL11	VOLUME	483621.702	3721457.851	
	479.830				
** DESCRSRC	Drive_Entry-Isle_11				
LOCATION	VOL12	VOLUME	483621.702	3721469.872	
	479.660				
** DESCRSRC	Drive_Entry-Isle_12				
LOCATION	VOL13	VOLUME	483621.988	3721481.607	
	479.570				
** DESCRSRC	Drive_Main-Isle_1				

LOCATION	VOL14	VOLUME	483622.275	3721493.341
479.580				
** DESCRSRC	Drive_Main-Isle_2			
LOCATION	VOL15	VOLUME	483622.275	3721505.648
479.780				
** DESCRSRC	Drive_Main-Isle_3			
LOCATION	VOL16	VOLUME	483622.275	3721516.810
480.070				
** DESCRSRC	Drive_Main-Isle_4			
LOCATION	VOL17	VOLUME	483610.254	3721516.524
479.840				
** DESCRSRC	Drive_Main-Isle_5			
LOCATION	VOL18	VOLUME	483599.092	3721516.524
479.690				
** DESCRSRC	Drive_Main-Isle_6			
LOCATION	VOL19	VOLUME	483587.643	3721516.810
479.600				
** DESCRSRC	Drive_Main-Isle_7			
LOCATION	VOL20	VOLUME	483576.195	3721516.524
479.670				
** DESCRSRC	Drive_Main-Isle_8			
LOCATION	VOL21	VOLUME	483565.033	3721516.238
479.820				
** DESCRSRC	Drive_Main-Isle_9			
LOCATION	VOL22	VOLUME	483553.870	3721516.524
479.790				
** DESCRSRC	Drive_Main-Isle_10			
LOCATION	VOL23	VOLUME	483541.850	3721516.810
479.300				
** DESCRSRC	Drive_Main-Isle_11			
LOCATION	VOL24	VOLUME	483530.115	3721516.524
478.260				
** DESCRSRC	Drive_Main-Isle_12			
LOCATION	VOL25	VOLUME	483518.094	3721516.524
477.730				
** DESCRSRC	Drive_Main-Isle_13			
LOCATION	VOL26	VOLUME	483506.073	3721516.524
477.670				
** DESCRSRC	Drive_Main-Isle_14			
LOCATION	VOL27	VOLUME	483493.766	3721516.524
477.870				
** DESCRSRC	Drive_Main-Isle_15			
LOCATION	VOL28	VOLUME	483482.318	3721516.524
478.340				
** DESCRSRC	Drive_Main-Isle_16			
LOCATION	VOL29	VOLUME	483470.011	3721516.524
478.920				
** DESCRSRC	Drive_Main-Isle_17			
LOCATION	VOL30	VOLUME	483458.277	3721516.524
479.310				
** DESCRSRC	Drive_Main-Isle_18			
LOCATION	VOL31	VOLUME	483446.542	3721516.524

479.510				
**	DESCRSRC	Drive_Main-Isle_19		
	LOCATION	VOL32	VOLUME	483435.094 3721516.238
479.820				
**	DESCRSRC	Drive_Main-Isle_20		
	LOCATION	VOL33	VOLUME	483422.787 3721516.524
480.010				
**	DESCRSRC	Drive_Main-Isle_21		
	LOCATION	VOL34	VOLUME	483411.052 3721516.524
479.890				
**	DESCRSRC	Drive_Main-Isle_22		
	LOCATION	VOL35	VOLUME	483399.317 3721516.810
479.440				
**	DESCRSRC	Drive_Main-Isle_23		
	LOCATION	VOL36	VOLUME	483399.604 3721528.259
479.400				
**	DESCRSRC	Drive_Isle-A_1		
	LOCATION	VOL37	VOLUME	483399.604 3721540.566
479.200				
**	DESCRSRC	Drive_Isle-A_2		
	LOCATION	VOL38	VOLUME	483399.604 3721552.014
478.880				
**	DESCRSRC	Drive_Isle-A_3		
	LOCATION	VOL39	VOLUME	483399.604 3721563.463
478.600				
**	DESCRSRC	Drive_Isle-A_4		
	LOCATION	VOL40	VOLUME	483399.604 3721505.362
479.540				
**	DESCRSRC	Drive_Isle-C_1		
	LOCATION	VOL41	VOLUME	483399.604 3721493.627
479.720				
**	DESCRSRC	Drive_Isle-C_2		
	LOCATION	VOL42	VOLUME	483399.604 3721482.179
479.950				
**	DESCRSRC	Drive_Isle-C_3		
	LOCATION	VOL43	VOLUME	483399.604 3721470.731
480.230				
**	DESCRSRC	Drive_Isle-C_4		
	LOCATION	VOL44	VOLUME	483622.580 3721528.435
480.370				
**	DESCRSRC	Drive_Isle-J_1		
	LOCATION	VOL45	VOLUME	483622.823 3721540.356
480.500				
**	DESCRSRC	Drive_Isle-J_2		
	LOCATION	VOL46	VOLUME	483623.066 3721552.520
480.640				
**	DESCRSRC	Drive_Isle-J_3		
**	-----			
-----				
**	Line Source Represented by Area Sources			
**	LINE AREA Source ID = ARLN03			
**	DESCRSRC Ops_Zeiders			

```

** PREFIX
** Length of Side = 13.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 2.361E-09
** Nodes = 2
** 483717.993, 3721415.133, 479.31, 4.12
** 483716.310, 3722431.310, 463.62, 4.12
** -----
-----
LOCATION A0000051      AREA      483724.493 3721415.144 478.99
LOCATION A0000052      AREA      483724.283 3721542.166 476.61
LOCATION A0000053      AREA      483724.072 3721669.188 475.47
LOCATION A0000054      AREA      483723.862 3721796.210 474.57
LOCATION A0000055      AREA      483723.652 3721923.233 471.85
LOCATION A0000056      AREA      483723.441 3722050.255 469.85
LOCATION A0000057      AREA      483723.231 3722177.277 468.40
LOCATION A0000058      AREA      483723.020 3722304.299 466.86
** End of LINE AREA Source ID = ARLN03
** -----
-----
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN04
** DESCRSRC Ops_Scott
** PREFIX
** Length of Side = 13.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 2.3608E-09
** Nodes = 2
** 483716.310, 3722431.310, 463.62, 4.12
** 484004.760, 3722445.880, 465.17, 4.12
** -----
-----
LOCATION A0000076      AREA      483716.638 3722424.818 463.88
LOCATION A0000077      AREA      483812.788 3722429.675 464.33
LOCATION A0000078      AREA      483908.938 3722434.532 464.98
** End of LINE AREA Source ID = ARLN04
** -----
-----
** Line Source Represented by Area Sources
** LINE AREA Source ID = ARLN05
** DESCRSRC Ops_I-215
** PREFIX
** Length of Side = 13.00
** Ratio = 10
** Vertical Dimension = 0.00
** Emission Rate = 2.3608E-09
** Nodes = 5
** 484004.760, 3722445.880, 465.17, 4.12
** 484048.460, 3722339.540, 464.03, 4.12
** 484087.800, 3722202.600, 463.03, 4.12

```

\*\* 484112.560, 3722081.680, 465.06, 4.12  
 \*\* 484114.690, 3720835.640, 481.41, 4.12

\*\* -----  
 -----

LOCATION	A0000101	AREA	483998.748	3722443.409	464.01
LOCATION	A0000102	AREA	484042.213	3722337.745	464.81
LOCATION	A0000103	AREA	484061.883	3722269.275	462.81
LOCATION	A0000104	AREA	484081.432	3722201.296	462.80
LOCATION	A0000105	AREA	484106.060	3722081.669	464.88
LOCATION	A0000106	AREA	484106.273	3721957.065	466.88
LOCATION	A0000107	AREA	484106.486	3721832.461	468.79
LOCATION	A0000108	AREA	484106.699	3721707.857	470.39
LOCATION	A0000109	AREA	484106.912	3721583.253	472.11
LOCATION	A0000110	AREA	484107.125	3721458.649	474.12
LOCATION	A0000111	AREA	484107.338	3721334.045	476.43
LOCATION	A0000112	AREA	484107.551	3721209.441	477.61
LOCATION	A0000113	AREA	484107.764	3721084.837	479.17
LOCATION	A0000114	AREA	484107.977	3720960.233	481.04

\*\* End of LINE AREA Source ID = ARLN05

\*\* Source Parameters \*\*

SRCPARAM	PAREA01	3.5917E-08	5.000	4
AREAVERT	PAREA01	483570.850	3721620.955	483707.431
3721619.863				
AREAVERT	PAREA01	483706.515	3721511.807	483571.863
3721511.806				
SRCPARAM	PAREA02	6.06E-08	5.000	4
AREAVERT	PAREA02	483311.870	3721620.630	483515.630
3721620.180				
AREAVERT	PAREA02	483515.630	3721516.690	483315.070
3721516.230				
SRCPARAM	PAREA03	6.06E-08	5.000	4
AREAVERT	PAREA03	483513.800	3721620.630	483707.020
3721619.720				
AREAVERT	PAREA03	483705.650	3721518.520	483516.080
3721517.610				
SRCPARAM	PAREA04	6.06E-08	5.000	4
AREAVERT	PAREA04	483314.410	3721515.230	483514.890
3721517.130				
AREAVERT	PAREA04	483515.430	3721418.000	483313.960
3721419.080				
SRCPARAM	PAREA05	6.06E-08	5.000	4
AREAVERT	PAREA05	483514.890	3721518.200	483705.060
3721518.740				
AREAVERT	PAREA05	483703.980	3721417.470	483514.360
3721418.000				
SRCPARAM	PAREA06	1.86E-08	5.000	4
AREAVERT	PAREA06	483311.870	3721620.630	483515.630
3721620.180				
AREAVERT	PAREA06	483515.630	3721516.690	483315.070
3721516.230				
SRCPARAM	PAREA07	1.86E-08	5.000	4
AREAVERT	PAREA07	483513.800	3721620.630	483707.020

3721619.720					
AREAVERT	PAREA07	483705.650	3721518.520	483516.080	
3721517.610					
SRCPARAM	PAREA08	1.86E-08	5.000	4	
AREAVERT	PAREA08	483314.410	3721515.230	483514.890	
3721517.130					
AREAVERT	PAREA08	483515.430	3721418.000	483313.960	
3721419.080					
SRCPARAM	PAREA09	1.86E-08	5.000	4	
AREAVERT	PAREA09	483514.890	3721518.200	483705.060	
3721518.740					
AREAVERT	PAREA09	483703.980	3721417.470	483514.360	
3721418.000					
** LINE AREA Source ID = ARLN01					
	SRCPARAM	A0000001	4.047E-10	4.120	114.545
13.000		-90.036			
	SRCPARAM	A0000002	4.047E-10	4.120	114.545
13.000		-90.036			
	SRCPARAM	A0000003	4.047E-10	4.120	114.545
13.000		-90.036			
	SRCPARAM	A0000004	4.047E-10	4.120	114.545
13.000		-90.036			
	SRCPARAM	A0000005	4.047E-10	4.120	114.545
13.000		-90.036			
	SRCPARAM	A0000006	4.047E-10	4.120	114.545
13.000		-90.036			
	SRCPARAM	A0000007	4.047E-10	4.120	114.545
13.000		-90.036			
	SRCPARAM	A0000008	4.047E-10	4.120	114.545
13.000		-90.036			
	SRCPARAM	A0000009	4.047E-10	4.120	96.272
13.000		-2.891			
	SRCPARAM	A0000010	4.047E-10	4.120	96.272
13.000		-2.891			
	SRCPARAM	A0000011	4.047E-10	4.120	96.272
13.000		-2.891			
	SRCPARAM	A0000012	4.047E-10	4.120	114.977
67.659					13.000
	SRCPARAM	A0000013	4.047E-10	4.120	71.238
73.974					13.000
	SRCPARAM	A0000014	4.047E-10	4.120	71.238
73.974					13.000
	SRCPARAM	A0000015	4.047E-10	4.120	123.425
78.425					13.000
	SRCPARAM	A0000016	4.047E-10	4.120	124.604
89.902					13.000
	SRCPARAM	A0000017	4.047E-10	4.120	124.604
89.902					13.000
	SRCPARAM	A0000018	4.047E-10	4.120	124.604
89.902					13.000
	SRCPARAM	A0000019	4.047E-10	4.120	124.604
89.902					13.000

89.902	SRCPARAM A0000020	4.047E-10	4.120	124.604	13.000
89.902	SRCPARAM A0000021	4.047E-10	4.120	124.604	13.000
89.902	SRCPARAM A0000022	4.047E-10	4.120	124.604	13.000
89.902	SRCPARAM A0000023	4.047E-10	4.120	124.604	13.000
89.902	SRCPARAM A0000024	4.047E-10	4.120	124.604	13.000
89.902	SRCPARAM A0000025	4.047E-10	4.120	124.604	13.000
** -----					
-----					
** LINE AREA Source ID = ARLN02					
13.000	SRCPARAM A0000026	2.7053E-10	4.120	114.544	
13.000	-90.036				
13.000	SRCPARAM A0000027	2.7053E-10	4.120	114.544	
13.000	-90.036				
13.000	SRCPARAM A0000028	2.7053E-10	4.120	114.544	
13.000	-90.036				
13.000	SRCPARAM A0000029	2.7053E-10	4.120	114.544	
13.000	-90.036				
13.000	SRCPARAM A0000030	2.7053E-10	4.120	114.544	
13.000	-90.036				
13.000	SRCPARAM A0000031	2.7053E-10	4.120	114.544	
13.000	-90.036				
13.000	SRCPARAM A0000032	2.7053E-10	4.120	114.544	
13.000	-90.036				
13.000	SRCPARAM A0000033	2.7053E-10	4.120	114.544	
13.000	-90.036				
13.000	SRCPARAM A0000034	2.7053E-10	4.120	96.273	
13.000	-2.892				
13.000	SRCPARAM A0000035	2.7053E-10	4.120	96.273	
13.000	-2.892				
13.000	SRCPARAM A0000036	2.7053E-10	4.120	96.273	
13.000	-2.892				
67.660	SRCPARAM A0000037	2.7053E-10	4.120	114.969	13.000
73.972	SRCPARAM A0000038	2.7053E-10	4.120	71.239	13.000
73.972	SRCPARAM A0000039	2.7053E-10	4.120	71.239	13.000
78.428	SRCPARAM A0000040	2.7053E-10	4.120	123.429	13.000
89.902	SRCPARAM A0000041	2.7053E-10	4.120	124.604	13.000
89.902	SRCPARAM A0000042	2.7053E-10	4.120	124.604	13.000
89.902	SRCPARAM A0000043	2.7053E-10	4.120	124.604	13.000
89.902	SRCPARAM A0000044	2.7053E-10	4.120	124.604	13.000

89.902	SRCPARAM A0000045	2.7053E-10	4.120	124.604	13.000
89.902	SRCPARAM A0000046	2.7053E-10	4.120	124.604	13.000
89.902	SRCPARAM A0000047	2.7053E-10	4.120	124.604	13.000
89.902	SRCPARAM A0000048	2.7053E-10	4.120	124.604	13.000
89.902	SRCPARAM A0000049	2.7053E-10	4.120	124.604	13.000
89.902	SRCPARAM A0000050	2.7053E-10	4.120	124.604	13.000
89.902					
**	-----				
-----					
	SRCPARAM STCK01	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK02	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK03	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK04	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK05	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK06	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK07	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK08	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK09	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK10	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK11	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK12	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK13	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK14	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK15	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK16	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK17	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK18	5.271E-07	4.120	366.000	50
0.101599998984	SRCPARAM STCK19	5.271E-07	4.120	366.000	50

0.101599998984					
SRCPARAM	STCK20	5.271E-07	4.120	366.000	50
0.101599998984					
SRCPARAM	STCK21	5.271E-07	4.120	366.000	50
0.101599998984					
SRCPARAM	STCK22	5.271E-07	4.120	366.000	50
0.101599998984					
SRCPARAM	VOL01	6.78E-07	4.120	5.590	5.670
SRCPARAM	VOL02	6.78E-07	4.120	5.590	5.670
SRCPARAM	VOL03	6.78E-07	4.120	5.590	5.670
SRCPARAM	VOL04	6.78E-07	4.120	5.590	5.670
SRCPARAM	VOL05	6.78E-07	4.120	5.590	5.670
SRCPARAM	VOL06	6.78E-07	4.120	5.590	5.670
SRCPARAM	VOL07	6.78E-07	4.120	5.590	5.670
SRCPARAM	VOL08	6.78E-07	4.120	5.590	5.670
SRCPARAM	VOL09	6.78E-07	4.120	5.590	5.670
SRCPARAM	VOL10	6.78E-07	4.120	5.590	5.670
SRCPARAM	VOL11	6.78E-07	4.120	5.590	5.670
SRCPARAM	VOL12	6.78E-07	4.120	5.590	5.670
SRCPARAM	VOL13	6.164E-07	4.120	5.590	5.670
SRCPARAM	VOL14	6.164E-07	4.120	5.590	5.670
SRCPARAM	VOL15	6.164E-07	4.120	5.590	5.670
SRCPARAM	VOL16	6.164E-07	4.120	5.590	5.670
SRCPARAM	VOL17	5.548E-07	4.120	5.590	5.670
SRCPARAM	VOL18	5.548E-07	4.120	5.590	5.670
SRCPARAM	VOL19	5.548E-07	4.120	5.590	5.670
SRCPARAM	VOL20	5.548E-07	4.120	5.590	5.670
SRCPARAM	VOL21	4.315E-07	4.120	5.590	5.670
SRCPARAM	VOL22	4.315E-07	4.120	5.590	5.670
SRCPARAM	VOL23	4.315E-07	4.120	5.590	5.670
SRCPARAM	VOL24	4.315E-07	4.120	5.590	5.670
SRCPARAM	VOL25	4.315E-07	4.120	5.590	5.670
SRCPARAM	VOL26	3.082E-07	4.120	5.590	5.670
SRCPARAM	VOL27	3.082E-07	4.120	5.590	5.670
SRCPARAM	VOL28	3.082E-07	4.120	5.590	5.670
SRCPARAM	VOL29	3.082E-07	4.120	5.590	5.670
SRCPARAM	VOL30	3.082E-07	4.120	5.590	5.670
SRCPARAM	VOL31	3.082E-07	4.120	5.590	5.670
SRCPARAM	VOL32	3.082E-07	4.120	5.590	5.670
SRCPARAM	VOL33	3.082E-07	4.120	5.590	5.670
SRCPARAM	VOL34	3.082E-07	4.120	5.590	5.670
SRCPARAM	VOL35	3.082E-07	4.120	5.590	5.670
SRCPARAM	VOL36	6.164E-08	4.120	5.590	5.670
SRCPARAM	VOL37	6.164E-08	4.120	5.590	5.670
SRCPARAM	VOL38	6.164E-08	4.120	5.590	5.670
SRCPARAM	VOL39	6.164E-08	4.120	5.590	5.670
SRCPARAM	VOL40	6.164E-08	4.120	5.590	5.670
SRCPARAM	VOL41	6.164E-08	4.120	5.590	5.670
SRCPARAM	VOL42	6.164E-08	4.120	5.590	5.670
SRCPARAM	VOL43	6.164E-08	4.120	5.590	5.670
SRCPARAM	VOL44	6.164E-08	4.120	5.590	5.670
SRCPARAM	VOL45	6.164E-08	4.120	5.590	5.670

	SRCPARAM VOL46	6.164E-08	4.120	5.590	5.670
**	LINE AREA Source ID = ARLN03				
	SRCPARAM A0000051	2.361E-09	4.120	127.022	
13.000	-90.095				
	SRCPARAM A0000052	2.361E-09	4.120	127.022	
13.000	-90.095				
	SRCPARAM A0000053	2.361E-09	4.120	127.022	
13.000	-90.095				
	SRCPARAM A0000054	2.361E-09	4.120	127.022	
13.000	-90.095				
	SRCPARAM A0000055	2.361E-09	4.120	127.022	
13.000	-90.095				
	SRCPARAM A0000056	2.361E-09	4.120	127.022	
13.000	-90.095				
	SRCPARAM A0000057	2.361E-09	4.120	127.022	
13.000	-90.095				
	SRCPARAM A0000058	2.361E-09	4.120	127.022	
13.000	-90.095				
**	-----				
-----					
**	LINE AREA Source ID = ARLN04				
	SRCPARAM A0000076	2.3608E-09	4.120	96.273	
13.000	-2.892				
	SRCPARAM A0000077	2.3608E-09	4.120	96.273	
13.000	-2.892				
	SRCPARAM A0000078	2.3608E-09	4.120	96.273	
13.000	-2.892				
**	-----				
-----					
**	LINE AREA Source ID = ARLN05				
	SRCPARAM A0000101	2.3608E-09	4.120	114.969	13.000
67.660					
	SRCPARAM A0000102	2.3608E-09	4.120	71.239	13.000
73.972					
	SRCPARAM A0000103	2.3608E-09	4.120	71.239	13.000
73.972					
	SRCPARAM A0000104	2.3608E-09	4.120	123.429	13.000
78.428					
	SRCPARAM A0000105	2.3608E-09	4.120	124.604	13.000
89.902					
	SRCPARAM A0000106	2.3608E-09	4.120	124.604	13.000
89.902					
	SRCPARAM A0000107	2.3608E-09	4.120	124.604	13.000
89.902					
	SRCPARAM A0000108	2.3608E-09	4.120	124.604	13.000
89.902					
	SRCPARAM A0000109	2.3608E-09	4.120	124.604	13.000
89.902					
	SRCPARAM A0000110	2.3608E-09	4.120	124.604	13.000
89.902					
	SRCPARAM A0000111	2.3608E-09	4.120	124.604	13.000
89.902					

89.902	SRCPARAM A0000112	2.3608E-09	4.120	124.604	13.000
89.902	SRCPARAM A0000113	2.3608E-09	4.120	124.604	13.000
89.902	SRCPARAM A0000114	2.3608E-09	4.120	124.604	13.000

\*\* -----  
-----

\*\* Building Downwash \*\*

12.19	BUILDHGT STCK01	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK01	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK01	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK01	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK01	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK01	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK01	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK02	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK02	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK02	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK02	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK02	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK02	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK02	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK03	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK03	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK03	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK03	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK03	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK03	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK04	12.19	12.19	12.19	12.19
12.19	BUILDHGT STCK04	12.19	12.19	12.19	12.19

12.19	12.19				
	BUILDHGT	STCK04	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK04	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK04	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK04	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK05	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK05	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK05	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK05	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK05	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK06	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK06	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK06	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK06	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK06	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK06	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK07	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK07	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK07	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK07	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK07	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK08	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK08	12.19	12.19	12.19





12.19	12.19				
	BUILDHGT	STCK16	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK16	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK16	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK16	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK16	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK17	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK17	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK17	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK17	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK17	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK17	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK18	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK18	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK18	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK18	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK18	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK18	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK19	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK19	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK19	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK19	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK19	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK19	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK20	12.19	12.19	12.19
12.19	12.19				
	BUILDHGT	STCK20	12.19	12.19	12.19



98.15	113.28				
BUILDWID	STCK02	82.59	82.63	80.16	75.26
68.07	59.38				
BUILDWID	STCK02	68.48	75.73	80.68	83.17
83.14	80.38				
BUILDWID	STCK02	75.40	68.13	58.79	77.57
93.98	107.54				
BUILDWID	STCK02	117.83	124.54	127.46	126.51
68.07	59.51				
BUILDWID	STCK03	122.52	127.37	128.34	125.41
118.67	80.58				
BUILDWID	STCK03	75.58	68.13	58.79	67.69
93.98	107.54				
BUILDWID	STCK03	117.83	124.54	127.46	126.51
121.72	123.41				
BUILDWID	STCK03	122.52	127.37	128.34	125.41
118.67	112.15				
BUILDWID	STCK03	96.99	68.13	58.89	79.06
72.28	75.68				
BUILDWID	STCK03	76.78	75.55	72.03	126.51
121.72	113.96				
BUILDWID	STCK04	122.52	127.37	128.34	125.41
118.67	80.58				
BUILDWID	STCK04	75.58	68.13	58.79	67.69
93.98	107.54				
BUILDWID	STCK04	117.83	124.54	127.46	126.51
121.72	123.41				
BUILDWID	STCK04	122.52	127.37	128.34	125.41
118.67	112.15				
BUILDWID	STCK04	96.99	79.31	58.89	79.06
72.28	75.68				
BUILDWID	STCK04	76.78	75.55	72.03	66.32
121.72	113.96				
BUILDWID	STCK05	59.35	67.08	72.78	76.27
118.67	108.33				
BUILDWID	STCK05	94.69	78.89	58.89	79.06
97.10	112.19				
BUILDWID	STCK05	76.78	75.55	72.03	66.32
58.59	49.50				
BUILDWID	STCK05	59.35	67.08	72.78	76.27
118.67	108.33				
BUILDWID	STCK05	94.69	66.12	58.81	66.55
72.11	75.49				
BUILDWID	STCK05	76.78	75.55	72.03	66.32
58.59	49.81				
BUILDWID	STCK06	59.35	67.08	72.78	76.27
77.44	108.33				
BUILDWID	STCK06	94.69	78.89	58.89	79.06

97.10	112.19				
BUILDWID	STCK06	123.87	75.55	72.03	66.32
58.59	49.50				
BUILDWID	STCK06	59.35	67.08	72.78	76.27
77.44	108.33				
BUILDWID	STCK06	94.69	66.12	58.81	66.55
72.11	75.49				
BUILDWID	STCK06	76.57	75.55	72.03	66.32
58.59	49.81				
BUILDWID	STCK07	56.71	64.49	70.30	73.97
75.40	74.54				
BUILDWID	STCK07	71.41	66.12	58.81	65.53
70.80	73.91				
BUILDWID	STCK07	74.77	73.37	69.73	63.98
56.28	47.22				
BUILDWID	STCK07	56.71	64.49	70.30	73.97
75.40	74.54				
BUILDWID	STCK07	71.41	66.12	58.81	65.53
70.80	73.91				
BUILDWID	STCK07	74.77	73.37	69.73	63.98
56.28	47.22				
BUILDWID	STCK08	56.71	64.49	70.30	73.97
75.40	74.54				
BUILDWID	STCK08	71.41	66.12	58.81	65.53
70.80	73.91				
BUILDWID	STCK08	74.77	73.37	69.73	63.98
56.28	47.22				
BUILDWID	STCK08	56.71	64.49	70.30	73.97
75.40	74.54				
BUILDWID	STCK08	71.41	66.12	58.81	65.53
70.80	73.91				
BUILDWID	STCK08	74.77	73.37	69.73	63.98
56.28	47.22				
BUILDWID	STCK09	55.60	62.14	66.79	76.27
77.44	76.25				
BUILDWID	STCK09	72.75	67.04	59.29	66.68
72.28	75.68				
BUILDWID	STCK09	76.78	68.54	65.92	61.29
54.80	47.22				
BUILDWID	STCK09	56.71	64.49	70.30	76.27
77.44	76.25				
BUILDWID	STCK09	72.75	58.95	51.51	58.36
72.28	75.68				
BUILDWID	STCK09	76.78	68.54	65.92	61.29
54.80	47.38				
BUILDWID	STCK10	55.60	62.14	66.79	76.27
77.44	76.25				
BUILDWID	STCK10	72.75	67.04	59.29	66.68

72.28	75.68				
BUILDWID	STCK10	76.78	68.54	65.92	61.29
54.80	47.22				
BUILDWID	STCK10	56.71	64.49	70.30	76.27
77.44	76.25				
BUILDWID	STCK10	72.75	58.95	51.51	58.36
72.28	75.68				
BUILDWID	STCK10	76.78	68.54	65.92	61.29
54.80	47.38				
BUILDWID	STCK11	59.35	67.08	72.78	76.27
77.44	76.25				
BUILDWID	STCK11	72.75	67.04	59.29	66.68
72.28	75.68				
BUILDWID	STCK11	76.78	75.55	72.03	66.32
58.59	49.81				
BUILDWID	STCK11	59.35	67.08	72.78	76.27
77.44	76.25				
BUILDWID	STCK11	72.75	67.04	59.29	66.68
72.28	75.68				
BUILDWID	STCK11	76.78	75.55	72.03	66.32
58.59	49.81				
BUILDWID	STCK12	59.35	67.08	72.78	76.27
77.44	76.25				
BUILDWID	STCK12	72.75	67.04	59.29	66.68
72.28	75.68				
BUILDWID	STCK12	76.78	75.55	72.03	66.32
58.59	49.81				
BUILDWID	STCK12	59.35	67.08	72.78	76.27
77.44	76.25				
BUILDWID	STCK12	72.75	67.04	59.29	66.68
72.28	75.68				
BUILDWID	STCK12	76.78	75.55	72.03	66.32
58.59	49.81				
BUILDWID	STCK13	122.52	127.37	128.34	125.41
118.67	108.33				
BUILDWID	STCK13	94.69	78.18	59.29	77.57
93.98	107.54				
BUILDWID	STCK13	117.83	75.55	72.03	126.51
121.72	113.96				
BUILDWID	STCK13	122.52	127.37	128.34	125.41
118.67	108.33				
BUILDWID	STCK13	94.69	67.04	59.29	66.68
72.28	75.68				
BUILDWID	STCK13	76.78	75.55	72.03	126.51
121.72	113.96				
BUILDWID	STCK14	122.52	127.37	128.34	125.41
118.67	108.33				
BUILDWID	STCK14	94.69	67.04	59.29	77.57

93.98	107.54				
	BUILDWID STCK14	117.83	75.55	72.03	126.51
121.72	113.96				
	BUILDWID STCK14	122.52	127.37	128.34	125.41
118.67	108.33				
	BUILDWID STCK14	94.69	67.04	59.29	66.68
72.28	75.68				
	BUILDWID STCK14	76.78	75.55	72.03	126.51
121.72	113.96				
	BUILDWID STCK15	68.48	75.73	80.68	83.17
101.73	104.35				
	BUILDWID STCK15	103.80	100.09	93.50	99.46
103.15	103.71				
	BUILDWID STCK15	82.59	124.54	80.16	75.26
68.07	59.51				
	BUILDWID STCK15	68.48	75.73	80.68	83.17
101.73	80.58				
	BUILDWID STCK15	75.58	78.18	59.29	77.57
93.98	103.71				
	BUILDWID STCK15	117.83	124.54	80.16	75.26
68.07	59.51				
	BUILDWID STCK16	68.48	75.73	80.68	83.17
83.14	80.58				
	BUILDWID STCK16	75.58	68.28	59.08	67.78
75.05	80.03				
	BUILDWID STCK16	82.59	124.54	127.46	75.26
68.07	59.51				
	BUILDWID STCK16	68.48	75.73	80.68	83.17
83.14	80.58				
	BUILDWID STCK16	75.58	78.18	59.29	77.57
93.98	107.54				
	BUILDWID STCK16	117.83	124.54	127.46	75.26
68.07	59.51				
	BUILDWID STCK17	53.66	58.67	61.90	63.25
62.68	60.21				
	BUILDWID STCK17	55.90	49.90	42.53	49.55
55.52	59.80				
	BUILDWID STCK17	62.26	62.83	61.49	58.29
53.31	47.01				
	BUILDWID STCK17	53.66	58.67	61.90	63.25
62.68	60.21				
	BUILDWID STCK17	55.90	49.90	42.53	49.55
55.52	59.80				
	BUILDWID STCK17	62.26	62.83	61.49	58.29
53.31	47.01				
	BUILDWID STCK18	53.66	58.67	61.90	63.25
62.68	60.21				
	BUILDWID STCK18	55.90	49.90	42.53	49.55

55.52	59.80				
BUILDWID	STCK18	62.26	62.83	61.49	58.29
53.31	47.01				
BUILDWID	STCK18	53.66	58.67	61.90	63.25
62.68	60.21				
BUILDWID	STCK18	55.90	49.90	42.53	49.55
55.52	59.80				
BUILDWID	STCK18	62.26	62.83	61.49	58.29
53.31	47.01				
BUILDWID	STCK19	53.66	58.67	61.90	63.25
62.68	60.21				
BUILDWID	STCK19	103.80	100.09	93.50	99.46
103.15	103.71				
BUILDWID	STCK19	101.12	95.46	86.89	75.69
53.31	47.06				
BUILDWID	STCK19	62.51	76.10	87.39	63.25
62.68	60.21				
BUILDWID	STCK19	103.80	100.09	93.50	99.46
103.15	103.71				
BUILDWID	STCK19	101.12	95.46	86.89	75.69
53.31	47.01				
BUILDWID	STCK20	53.66	58.67	61.90	63.25
62.68	60.21				
BUILDWID	STCK20	103.80	100.09	93.50	99.46
103.15	103.71				
BUILDWID	STCK20	101.12	95.46	86.89	75.69
53.31	47.06				
BUILDWID	STCK20	62.51	76.10	61.90	63.25
62.68	60.21				
BUILDWID	STCK20	103.80	100.09	93.50	99.46
103.15	103.71				
BUILDWID	STCK20	101.12	95.46	86.89	75.69
53.31	47.01				
BUILDWID	STCK21	62.51	76.10	87.39	96.02
101.73	104.35				
BUILDWID	STCK21	151.18	149.75	143.92	149.20
150.59	147.40				
BUILDWID	STCK21	139.74	127.83	112.03	92.83
62.18	47.21				
BUILDWID	STCK21	71.28	93.37	112.61	96.02
101.73	104.35				
BUILDWID	STCK21	151.18	149.75	143.92	149.20
150.59	147.40				
BUILDWID	STCK21	139.74	127.83	112.03	92.83
62.18	47.06				
BUILDWID	STCK22	62.51	76.10	87.39	96.02
101.73	104.35				
BUILDWID	STCK22	151.18	149.75	143.92	149.20

150.59	147.40				
BUILDWID	STCK22	139.74	127.83	112.03	92.83
62.18	47.21				
BUILDWID	STCK22	71.28	93.37	87.39	96.02
101.73	104.35				
BUILDWID	STCK22	151.18	149.75	143.92	149.20
150.59	147.40				
BUILDWID	STCK22	139.74	127.83	112.03	92.83
62.18	47.06				
BUILDLEN	STCK01	67.78	75.05	80.03	101.12
95.46	86.89				
BUILDLEN	STCK01	75.69	62.18	47.06	62.51
135.70	135.85				
BUILDLEN	STCK01	83.17	83.14	80.58	75.58
68.28	58.79				
BUILDLEN	STCK01	67.78	75.05	80.03	82.59
82.63	112.03				
BUILDLEN	STCK01	75.34	68.18	59.38	122.52
127.37	128.34				
BUILDLEN	STCK01	125.41	118.67	108.33	75.58
68.28	59.08				
BUILDLEN	STCK02	67.78	75.05	80.03	82.59
82.63	80.21				
BUILDLEN	STCK02	75.34	68.18	59.38	68.24
135.70	135.85				
BUILDLEN	STCK02	83.17	83.14	80.58	75.58
68.28	58.79				
BUILDLEN	STCK02	67.78	75.05	80.03	82.59
82.63	80.21				
BUILDLEN	STCK02	75.34	68.18	59.38	122.52
127.37	128.34				
BUILDLEN	STCK02	125.41	118.67	108.33	94.69
68.28	59.08				
BUILDLEN	STCK03	77.57	93.98	107.54	117.83
124.54	80.16				
BUILDLEN	STCK03	75.26	68.18	59.38	68.24
127.37	128.34				
BUILDLEN	STCK03	125.41	118.67	108.33	94.69
78.18	58.89				
BUILDLEN	STCK03	77.57	93.98	107.54	117.83
124.54	136.72				
BUILDLEN	STCK03	136.42	68.18	123.41	131.74
67.08	72.78				
BUILDLEN	STCK03	76.27	77.44	76.25	94.69
78.18	59.29				
BUILDLEN	STCK04	77.57	93.98	107.54	117.83
124.54	80.16				
BUILDLEN	STCK04	75.26	68.18	59.38	68.24

127.37	128.34				
BUILDLEN	STCK04	125.41	118.67	108.33	94.69
78.18	58.89				
BUILDLEN	STCK04	77.57	93.98	107.54	117.83
124.54	136.72				
BUILDLEN	STCK04	136.42	131.15	123.41	131.74
67.08	72.78				
BUILDLEN	STCK04	76.27	77.44	76.25	72.75
78.18	59.29				
BUILDLEN	STCK05	66.68	72.28	75.68	76.78
124.54	127.46				
BUILDLEN	STCK05	126.51	131.97	123.41	131.74
136.07	136.26				
BUILDLEN	STCK05	76.27	77.44	76.25	72.75
67.04	58.96				
BUILDLEN	STCK05	66.68	72.28	75.68	76.78
124.54	127.46				
BUILDLEN	STCK05	126.51	56.28	47.22	58.70
66.29	71.86				
BUILDLEN	STCK05	76.27	77.44	76.25	72.75
67.04	59.29				
BUILDLEN	STCK06	66.68	72.28	75.68	76.78
75.55	127.46				
BUILDLEN	STCK06	126.51	131.97	123.41	131.74
136.07	136.26				
BUILDLEN	STCK06	132.31	77.44	76.25	72.75
67.04	58.96				
BUILDLEN	STCK06	66.68	72.28	75.68	76.78
75.55	127.46				
BUILDLEN	STCK06	126.51	56.28	47.22	58.70
66.29	71.86				
BUILDLEN	STCK06	75.25	77.44	76.25	72.75
67.04	59.29				
BUILDLEN	STCK07	65.53	70.80	73.91	74.77
73.37	69.73				
BUILDLEN	STCK07	63.98	56.28	47.22	56.71
64.49	70.30				
BUILDLEN	STCK07	73.97	75.40	74.54	71.41
66.12	58.81				
BUILDLEN	STCK07	65.53	70.80	73.91	74.77
73.37	69.73				
BUILDLEN	STCK07	63.98	56.28	47.22	56.71
64.49	70.30				
BUILDLEN	STCK07	73.97	75.40	74.54	71.41
66.12	58.81				
BUILDLEN	STCK08	65.53	70.80	73.91	74.77
73.37	69.73				
BUILDLEN	STCK08	63.98	56.28	47.22	56.71

64.49	70.30				
BUILDLEN	STCK08	73.97	75.40	74.54	71.41
66.12	58.81				
BUILDLEN	STCK08	65.53	70.80	73.91	74.77
73.37	69.73				
BUILDLEN	STCK08	63.98	56.28	47.22	56.71
64.49	70.30				
BUILDLEN	STCK08	73.97	75.40	74.54	71.41
66.12	58.81				
BUILDLEN	STCK09	58.36	63.91	67.52	76.78
75.55	72.03				
BUILDLEN	STCK09	66.32	58.59	49.81	59.35
67.08	72.78				
BUILDLEN	STCK09	76.27	69.91	68.30	64.61
58.95	58.81				
BUILDLEN	STCK09	65.53	70.80	73.91	76.78
75.55	72.03				
BUILDLEN	STCK09	66.32	54.80	47.38	55.60
67.08	72.78				
BUILDLEN	STCK09	76.27	69.91	68.30	64.61
58.95	51.51				
BUILDLEN	STCK10	58.36	63.91	67.52	76.78
75.55	72.03				
BUILDLEN	STCK10	66.32	58.59	49.81	59.35
67.08	72.78				
BUILDLEN	STCK10	76.27	69.91	68.30	64.61
58.95	58.81				
BUILDLEN	STCK10	65.53	70.80	73.91	76.78
75.55	72.03				
BUILDLEN	STCK10	66.32	54.80	47.38	55.60
67.08	72.78				
BUILDLEN	STCK10	76.27	69.91	68.30	64.61
58.95	51.51				
BUILDLEN	STCK11	66.68	72.28	75.68	76.78
75.55	72.03				
BUILDLEN	STCK11	66.32	58.59	49.81	59.35
67.08	72.78				
BUILDLEN	STCK11	76.27	77.44	76.25	72.75
67.04	59.29				
BUILDLEN	STCK11	66.68	72.28	75.68	76.78
75.55	72.03				
BUILDLEN	STCK11	66.32	58.59	49.81	59.35
67.08	72.78				
BUILDLEN	STCK11	76.27	77.44	76.25	72.75
67.04	59.29				
BUILDLEN	STCK12	66.68	72.28	75.68	76.78
75.55	72.03				
BUILDLEN	STCK12	66.32	58.59	49.81	59.35

67.08	72.78				
	BUILDLEN	STCK12	76.27	77.44	76.25 72.75
67.04	59.29				
	BUILDLEN	STCK12	66.68	72.28	75.68 76.78
75.55	72.03				
	BUILDLEN	STCK12	66.32	58.59	49.81 59.35
67.08	72.78				
	BUILDLEN	STCK12	76.27	77.44	76.25 72.75
67.04	59.29				
	BUILDLEN	STCK13	77.57	93.98	107.54 117.83
124.54	127.46				
	BUILDLEN	STCK13	126.51	121.72	113.96 122.52
127.37	128.34				
	BUILDLEN	STCK13	125.41	77.44	76.25 94.69
78.18	59.29				
	BUILDLEN	STCK13	77.57	93.98	107.54 117.83
124.54	127.46				
	BUILDLEN	STCK13	126.51	58.59	49.81 59.35
67.08	72.78				
	BUILDLEN	STCK13	76.27	77.44	76.25 94.69
78.18	59.29				
	BUILDLEN	STCK14	77.57	93.98	107.54 117.83
124.54	127.46				
	BUILDLEN	STCK14	126.51	58.59	113.96 122.52
127.37	128.34				
	BUILDLEN	STCK14	125.41	77.44	76.25 94.69
78.18	59.29				
	BUILDLEN	STCK14	77.57	93.98	107.54 117.83
124.54	127.46				
	BUILDLEN	STCK14	126.51	58.59	49.81 59.35
67.08	72.78				
	BUILDLEN	STCK14	76.27	77.44	76.25 94.69
78.18	59.29				
	BUILDLEN	STCK15	67.78	75.05	80.03 82.59
95.46	86.89				
	BUILDLEN	STCK15	75.69	62.18	47.06 62.51
76.10	87.39				
	BUILDLEN	STCK15	83.17	118.67	80.58 75.58
68.28	59.08				
	BUILDLEN	STCK15	67.78	75.05	80.03 82.59
95.46	80.16				
	BUILDLEN	STCK15	75.26	121.72	113.96 122.52
127.37	87.39				
	BUILDLEN	STCK15	125.41	118.67	80.58 75.58
68.28	59.08				
	BUILDLEN	STCK16	67.78	75.05	80.03 82.59
82.63	80.16				
	BUILDLEN	STCK16	75.26	68.07	59.51 68.48

75.73	80.68				
BUILDLEN	STCK16	83.17	118.67	108.33	75.58
68.28	59.08				
BUILDLEN	STCK16	67.78	75.05	80.03	82.59
82.63	80.16				
BUILDLEN	STCK16	75.26	121.72	113.96	122.52
127.37	128.34				
BUILDLEN	STCK16	125.41	118.67	108.33	75.58
68.28	59.08				
BUILDLEN	STCK17	49.55	55.52	59.80	62.26
62.83	61.49				
BUILDLEN	STCK17	58.29	53.31	47.01	53.66
58.67	61.90				
BUILDLEN	STCK17	63.25	62.68	60.21	55.90
49.90	42.53				
BUILDLEN	STCK17	49.55	55.52	59.80	62.26
62.83	61.49				
BUILDLEN	STCK17	58.29	53.31	47.01	53.66
58.67	61.90				
BUILDLEN	STCK17	63.25	62.68	60.21	55.90
49.90	42.53				
BUILDLEN	STCK18	49.55	55.52	59.80	62.26
62.83	61.49				
BUILDLEN	STCK18	58.29	53.31	47.01	53.66
58.67	61.90				
BUILDLEN	STCK18	63.25	62.68	60.21	55.90
49.90	42.53				
BUILDLEN	STCK18	49.55	55.52	59.80	62.26
62.83	61.49				
BUILDLEN	STCK18	58.29	53.31	47.01	53.66
58.67	61.90				
BUILDLEN	STCK18	63.25	62.68	60.21	55.90
49.90	42.53				
BUILDLEN	STCK19	49.55	55.52	59.80	62.26
62.83	61.49				
BUILDLEN	STCK19	75.69	62.18	47.06	62.51
76.10	87.39				
BUILDLEN	STCK19	96.02	101.73	104.35	103.80
49.90	93.50				
BUILDLEN	STCK19	99.46	103.15	103.71	62.26
62.83	61.49				
BUILDLEN	STCK19	75.69	62.18	47.06	62.51
76.10	87.39				
BUILDLEN	STCK19	96.02	101.73	104.35	103.80
49.90	42.53				
BUILDLEN	STCK20	49.55	55.52	59.80	62.26
62.83	61.49				
BUILDLEN	STCK20	75.69	62.18	47.06	62.51

76.10	87.39					
BUILDLEN	STCK20	96.02	101.73	104.35	103.80	
49.90	93.50					
BUILDLEN	STCK20	99.46	103.15	59.80	62.26	
62.83	61.49					
BUILDLEN	STCK20	75.69	62.18	47.06	62.51	
76.10	87.39					
BUILDLEN	STCK20	96.02	101.73	104.35	103.80	
49.90	42.53					
BUILDLEN	STCK21	99.46	103.15	103.71	101.12	
95.46	86.89					
BUILDLEN	STCK21	92.83	70.81	47.21	71.28	
93.37	112.61					
BUILDLEN	STCK21	128.44	140.36	148.02	151.18	
100.09	143.92					
BUILDLEN	STCK21	149.20	150.59	147.40	101.12	
95.46	86.89					
BUILDLEN	STCK21	92.83	70.81	47.21	71.28	
93.37	112.61					
BUILDLEN	STCK21	128.44	140.36	148.02	151.18	
100.09	93.50					
BUILDLEN	STCK22	99.46	103.15	103.71	101.12	
95.46	86.89					
BUILDLEN	STCK22	92.83	70.81	47.21	71.28	
93.37	112.61					
BUILDLEN	STCK22	128.44	140.36	148.02	151.18	
100.09	143.92					
BUILDLEN	STCK22	149.20	150.59	103.71	101.12	
95.46	86.89					
BUILDLEN	STCK22	92.83	70.81	47.21	71.28	
93.37	112.61					
BUILDLEN	STCK22	128.44	140.36	148.02	151.18	
100.09	93.50					
XBADJ						
STCK01		-90.88	-91.55	-89.45	-134.62	-137.07
7						
XBADJ						
STCK01		-129.54	-119.79	-106.54	-106.14	-15.75
7						
XBADJ	STCK01		-2.52	4.32	11.02	17.39
23.23	-58.03					
XBADJ	STCK01		23.09	16.50	9.41	
2.04	-5.40	23.34				
XBADJ						
STCK01		-49.77	-41.52	-32.01	-167.20	-174.93
3						
XBADJ						
STCK01		-174.35	-166.08	-152.75	-92.97	-91.50
4						

XBADJ						
STCK02	-91.60	-93.03	-91.64	-87.46	-80.63	-27.5
6						
XBADJ						
STCK02	-29.76	-31.06	-31.86	-41.46	-19.99	-13.1
9						
XBADJ	STCK02	-5.99	1.39	8.72	15.80	
22.39	-58.09					
XBADJ	STCK02	23.81	17.98	11.61		
4.88	-2.00	-52.65				
XBADJ						
STCK02	-45.57	-37.11	-27.52	-162.77	-170.69	-173.4
2						
XBADJ						
STCK02	-170.88	-163.14	-150.46	-133.19	-90.66	-87.3
8						
XBADJ						
STCK03	-90.17	-90.55	-88.19	-83.14	-75.57	-124.7
2						
XBADJ						
STCK03	-117.78	-91.72	-93.43	-102.08	-14.50	-8.1
9						
XBADJ	STCK03	-1.63	4.98	11.44	17.55	
23.13	-57.98					
XBADJ	STCK03					
12.60	-3.43	-19.35	-34.68	-48.96	-12.00	
XBADJ	STCK03	-18.63				
23.54	-29.98	-29.66	-112.87	-120.15		
XBADJ						
STCK03	-123.78	-123.65	-119.77	-112.24	-101.30	-87.2
9						
XBADJ						
STCK04	-90.99	-92.09	-90.39	-85.94	-78.89	-128.4
5						
XBADJ						
STCK04	-121.82	-95.93	-97.69	-106.26	-18.47	-11.8
4						
XBADJ	STCK04	-4.84	2.30	9.38	16.17	
22.46	-57.90					
XBADJ	STCK04					
13.42	-1.90	-17.15	-31.88	-45.65	-8.27	
XBADJ						
STCK04	-14.60	-35.23	-25.72	-25.48	-108.89	-116.5
0						
XBADJ						
STCK04	-120.57	-120.97	-117.70	-110.86	-100.64	-87.3
7						
XBADJ						

STCK05		-90.17	-90.01	-87.11	-81.56	-122.52	-118.7
1							
	XBADJ						
STCK05		-111.29	-167.42	-154.45	-162.12	-164.86	-162.5
9							
	XBADJ						
STCK05				0.97	7.23	13.27	18.91
23.97	-57.63						
	XBADJ						
STCK05				23.50	17.73	11.43	
4.78	-2.02	-8.75					
	XBADJ						
STCK05		-15.22	-113.80	-105.66	-26.08	-25.04	-23.2
3							
	XBADJ						
STCK05		-77.24	-84.67	-89.52	-91.66	-91.01	-87.6
0							
	XBADJ						
STCK06		-91.02	-91.60	-89.40	-84.48	-76.99	-122.5
9							
	XBADJ						
STCK06		-115.49	-171.81	-158.89	-166.48	-169.00	-166.4
0							
	XBADJ						
STCK06				-158.73	4.44	11.12	17.47
23.28	-57.55						
	XBADJ						
STCK06				24.35	19.33	13.72	7.69
1.44	-4.87						
	XBADJ						
STCK06		-11.02	-109.41	-101.22	-21.73	-20.89	-19.4
2							
	XBADJ						
STCK06		-17.36	-81.87	-87.37	-90.22	-90.32	-87.6
8							
	XBADJ						
STCK07		-30.64	-29.54	-27.55	-24.72	-21.14	-16.9
2							
	XBADJ						
STCK07		-12.18	-7.07	-1.92	-6.66	-11.20	-15.4
0							
	XBADJ						
STCK07		-19.13	-22.29	-24.76	-26.48	-27.40	-27.4
8							
	XBADJ						
STCK07		-34.90	-41.25	-46.36	-50.05	-52.23	-52.8
2							
	XBADJ						
STCK07		-51.80	-49.21	-45.30	-50.05	-53.28	-54.9
0							
	XBADJ						
STCK07		-54.84	-53.12	-49.78	-44.93	-38.72	-31.3
3							

XBADJ						
STCK08	-26.38	-25.52	-23.89	-21.53	-18.51	-14.9
3						
XBADJ						
STCK08	-10.90	-6.54	-2.15	-7.65	-12.91	-17.7
8						
XBADJ						
STCK08	-22.11	-25.77	-28.65	-30.66	-31.73	-31.8
4						
XBADJ						
STCK08	-39.15	-45.27	-50.02	-53.25	-54.85	-54.8
0						
XBADJ						
STCK08	-53.07	-49.74	-45.07	-49.07	-51.58	-52.5
2						
XBADJ						
STCK08	-51.86	-49.63	-45.89	-40.76	-34.39	-26.9
7						
XBADJ						
STCK09	-26.64	-25.68	-23.95	-80.18	-86.08	-89.3
7						
XBADJ						
STCK09	-89.94	-87.78	-82.95	-85.90	-86.23	-83.9
5						
XBADJ						
STCK09	-79.12	-19.55	-21.76	-23.31	-24.15	-109.6
8						
XBADJ	STCK09	-115.83	-118.46	-117.50	3.39	
10.53	17.34					
XBADJ	STCK09	23.62	-48.66	-45.86	-49.90	
19.15	11.17					
XBADJ	STCK09					
2.85	-50.36	-46.54	-41.30	-34.81	-27.26	
XBADJ						
STCK10	-22.79	-22.04	-20.62	-77.26	-83.67	-87.5
3						
XBADJ						
STCK10	-88.74	-87.24	-83.10	-86.73	-87.72	-86.0
5						
XBADJ						
STCK10	-81.76	-22.66	-25.24	-27.05	-28.04	-113.6
1						
XBADJ	STCK10	-119.68	-122.10	-120.82	0.48	
8.11	15.50					
XBADJ	STCK10	22.42	-49.19	-45.71	-49.07	
20.64	13.26					
XBADJ	STCK10					
5.49	-47.25	-43.06	-37.56	-30.91	-23.33	
XBADJ						

STCK11	-59.95	-61.17	-60.54	-58.07	-53.83	-47.9
6						
XBADJ						
STCK11	-40.63	-32.07	-22.53	-22.60	-21.99	-20.7
1						
XBADJ						
STCK11	-18.80	-16.31	-13.33	-9.95	-6.27	-2.3
9						
XBADJ						
STCK11	-6.73	-11.10	-15.14	-18.71	-21.72	-24.0
7						
XBADJ						
STCK11	-25.68	-26.52	-27.28	-36.75	-45.10	-52.0
8						
XBADJ						
STCK11	-57.47	-61.12	-62.92	-62.80	-60.77	-56.9
0						
XBADJ						
STCK12	-60.61	-62.56	-62.61	-60.76	-57.06	-51.6
3						
XBADJ						
STCK12	-44.63	-36.27	-26.81	-26.83	-26.04	-24.4
5						
XBADJ						
STCK12	-22.13	-19.13	-15.54	-11.49	-7.09	-2.4
7						
XBADJ						
STCK12	-6.06	-9.71	-13.07	-16.02	-18.49	-20.4
0						
XBADJ						
STCK12	-21.69	-22.32	-23.00	-32.52	-41.05	-48.3
3						
XBADJ						
STCK12	-54.14	-58.31	-60.71	-61.26	-59.95	-56.8
2						
XBADJ						
STCK13	-60.23	-61.96	-61.81	-59.79	-55.95	-50.4
0						
XBADJ						
STCK13	-43.33	-34.94	-25.49	-25.52	-24.77	-23.2
6						
XBADJ						
17.27	-10.95	-6.77	-21.06	23.03		
XBADJ			-2.38			
STCK13	-17.34	-32.02	-45.72	-58.04	-68.59	-77.0
6						
XBADJ						
STCK13	-83.18	-86.78	-88.47	-97.01	-102.60	-105.0
7						
XBADJ						

STCK13		-104.35	-100.46	-93.52	-83.74	-71.41	-56.9
1							
	XBADJ						
STCK14		-61.02	-63.51	-64.07	-62.68	-59.38	-54.2
9							
	XBADJ	STCK14		-47.54			
23.78	-29.96	-29.91	-28.96	-27.13			
	XBADJ	STCK14		-24.47	20.17		
15.05	-12.46	-7.53	-2.36				
	XBADJ						
STCK14		-16.55	-30.47	-43.47	-55.15	-65.15	-73.1
7							
	XBADJ						
STCK14		-78.97	-82.37	-84.00	-92.61	-98.41	-101.2
1							
	XBADJ						
STCK14		-100.94	-97.61	-91.30	-82.23	-70.65	-56.9
3							
	XBADJ						
STCK15		-60.81	-62.89	-63.06	-61.31	-117.54	-120.2
1							
	XBADJ						
STCK15		-119.23	-114.62	-106.68	-111.59	-113.10	-111.1
8							
	XBADJ	STCK15		-22.26			
23.91	-15.51	-11.37	-6.88	-2.19			
	XBADJ	STCK15		-6.97	-12.16	-16.97	-21.28
22.09	-27.83						
	XBADJ						
STCK15		-29.88	-151.61	-154.26	-161.76	-164.35	
23.80							
	XBADJ						
STCK15		-154.61	-142.58	-65.08	-64.21	-61.39	-56.8
9							
	XBADJ						
STCK16		-61.59	-64.41	-65.28	-64.16	-61.10	-56.1
8							
	XBADJ						
STCK16		-49.55	-41.41	-32.02	-31.56	-30.50	-28.5
1							
	XBADJ	STCK16		-25.66	21.06		
15.68	-12.89	-7.65	-2.19				
	XBADJ						
STCK16		-6.20	-10.64	-14.75	-18.42	-21.53	-23.9
9							
	XBADJ						
STCK16		-25.71	-147.23	-149.82	-157.39	-160.17	-158.0
9							
	XBADJ						

STCK16	-151.21	-139.73	-124.00	-62.69	-60.62	-56.8
9						
XBADJ						
STCK17	-30.45	-37.03	-42.48	-46.64	-49.38	-50.6
3						
XBADJ						
STCK17	-50.33	-48.51	-45.36	-48.07	-49.32	-49.0
7						
XBADJ						
STCK17	-47.33	-44.16	-39.64	-33.91	-27.16	-19.5
8						
XBADJ						
STCK17	-19.10	-18.49	-17.32	-15.62	-13.45	-10.8
6						
XBADJ						
STCK17	-7.95	-4.80	-1.65	-5.58	-9.35	-12.8
3						
XBADJ						
STCK17	-15.92	-18.53	-20.57	-21.99	-22.74	-22.9
5						
XBADJ						
STCK18	-26.67	-33.41	-39.14	-43.68	-46.88	-48.6
7						
XBADJ						
STCK18	-48.98	-47.79	-45.31	-48.69	-50.58	-50.9
4						
XBADJ						
STCK18	-49.76	-47.06	-42.93	-37.50	-30.92	-23.4
1						
XBADJ						
STCK18	-22.88	-22.11	-20.66	-18.58	-15.95	-12.8
2						
XBADJ						
STCK18	-9.31	-5.51	-1.70	-4.97	-8.09	-10.9
6						
XBADJ						
STCK18	-13.50	-15.62	-17.28	-18.41	-18.98	-19.1
2						
XBADJ						
STCK19	-80.44	-84.77	-86.52	-85.64	-82.16	-76.1
8						
XBADJ						
STCK19	-67.89	-57.53	-45.58	-48.33	-49.61	-49.3
9						
XBADJ						
STCK19		-47.66	-44.49	-39.96	-34.22	
22.75	-19.83					
XBADJ						
STCK19		-19.02	-18.39	-17.20	23.38	
19.33	14.69					
XBADJ						

STCK19		-7.80	-4.65	-1.48	-14.17	-26.49	-38.0
0							
	XBADJ						
STCK19		-48.35	-57.24	-64.39	-69.58	-72.65	-73.6
7							
	XBADJ						
STCK20		-76.46	-80.98	-83.04	-82.58	-79.61	-74.2
1							
	XBADJ						
STCK20		-66.57	-56.90	-45.65	-49.10	-51.06	-51.4
7							
	XBADJ	STCK20		-50.32	-47.64	-43.51	-38.05
18.75	-23.88						
	XBADJ	STCK20		-22.99	-22.17	23.25	20.32
16.78	12.72						
	XBADJ						
STCK20		-9.12	-5.29	-1.41	-13.40	-25.04	-35.9
1							
	XBADJ						
STCK20		-45.70	-54.09	-60.84	-65.75	-68.65	-69.6
2							
	XBADJ						
STCK21		-130.22	-132.29	-130.34	-124.43	-114.74	-101.5
7							
	XBADJ						
STCK21		-85.31	-66.45	-45.88	-48.48	-49.74	-49.4
9							
	XBADJ	STCK21		-47.73	-44.52	-39.96	-34.19
22.28	-19.73						
	XBADJ	STCK21		-18.98	-18.30	-17.06	23.31
19.29	14.68						
	XBADJ						
STCK21		-7.53	-4.36	-1.33	-22.80	-43.63	-63.1
3							
	XBADJ						
STCK21		-80.71	-95.84	-108.06	-117.00	-122.38	-124.1
9							
	XBADJ						
STCK22		-126.24	-128.49	-126.83	-121.32	-112.12	-99.5
2							
	XBADJ						
STCK22		-83.89	-65.71	-45.84	-49.14	-51.08	-51.4
7							
	XBADJ	STCK22		-50.29	-47.58	-43.43	-37.96
18.32	-23.76						
	XBADJ	STCK22		-22.96	-22.10	23.12	20.20
16.67	12.63						
	XBADJ						
STCK22		-8.94	-5.10	-1.37	-22.14	-42.29	-61.1

5							
	XBADJ						
	STCK22	-78.15	-92.78	-104.59	-113.22	-118.42	-120.1
6							
	YBADJ	STCK01	-12.50	-22.12	-31.07	38.13	
23.01	7.19						
	YBADJ						
	STCK01	-8.85	-24.61	-39.71	-53.89	-42.48	-32.8
1							
	YBADJ						
	STCK01	-43.33	-35.91	-27.40	-18.06	-8.17	
2.32							
	YBADJ	STCK01	12.50	22.12	31.07	39.07	
45.89	-29.03						
	YBADJ	STCK01	-26.19	-27.84	-28.63	39.86	
20.92	1.35						
	YBADJ	STCK01	-18.27	-37.33	-55.26	18.06	
8.17	-2.32						
	YBADJ						
	STCK02	-8.06	-17.88	-27.15	-35.59	-42.96	
26.05							
	YBADJ	STCK02	27.78	28.67	28.69		
27.70	-43.96	-35.00					
	YBADJ						
	STCK02	-46.17	-39.31	-31.26	-22.26	-12.58	-2.1
7							
	YBADJ	STCK02	8.06	17.88	27.15	35.59	
42.96	-26.05						
	YBADJ	STCK02	-27.78	-28.67	-28.69	40.58	
22.40	3.54						
	YBADJ	STCK02	-15.43	-33.93	-51.40	-67.31	
12.58	2.17						
	YBADJ						
	STCK03	-40.89	-49.18	-55.98	-61.08	-64.32	-18.3
3							
	YBADJ	STCK03	-32.63	39.26	28.58		
16.90	-43.56	-34.42					
	YBADJ	STCK03	-24.23	-13.31	-1.98	9.41	
20.52	-31.73						
	YBADJ	STCK03	40.89	49.18	55.98	61.08	
64.32	34.11						
	YBADJ	STCK03	43.34	-39.26	-28.53	-22.58	
32.71	18.49						
	YBADJ	STCK03					
3.71	-11.18	-25.74	-9.41	-20.52	-31.36		
	YBADJ						
	STCK04	-36.71	-45.21	-52.33	-57.86	-61.64	-16.2
7							

YBADJ	STCK04		-31.25	39.92	28.50		
16.08	-45.10	-36.62					
YBADJ	STCK04		-27.03	-16.62	-5.71	5.38	
16.31	-35.99						
YBADJ	STCK04		36.71	45.21	52.33	57.86	
61.64	32.05						
YBADJ	STCK04		41.96	-34.33	-28.45	-21.77	
34.24	20.69						
YBADJ	STCK04						
6.51	-7.87	-22.01	-35.48	-16.31	-27.10		
YBADJ							
STCK05		-12.44	-22.09	-31.07	-39.10	-25.33	-35.3
6							
YBADJ	STCK05		-44.32	-40.96	28.22		
11.68	-5.18	-21.88					
YBADJ							
STCK05		-43.17	-35.76	-27.26	-17.94	-8.07	
1.76							
YBADJ	STCK05		12.44	22.09	31.07	39.10	
25.33	35.36						
YBADJ	STCK05						
44.32	-13.07	-27.74	-28.08	-27.17	-25.42		
YBADJ	STCK05		43.17	35.76	27.26	17.94	
8.07	-2.42						
YBADJ							
STCK06		-8.08	-17.95	-27.26	-35.75	-43.16	-33.2
1							
YBADJ	STCK06		-42.87	-40.27	28.14		
10.83	-6.77	-24.17					
YBADJ							
STCK06		-40.84	-39.21	-31.15	-22.14	-12.45	-2.6
8							
YBADJ	STCK06		8.08	17.95	27.26	35.75	
43.16	33.21						
YBADJ	STCK06						
42.87	-13.76	-27.66	-27.23	-25.57	-23.13		
YBADJ	STCK06		-19.99	39.21	31.15	22.14	
12.45	2.02						
YBADJ							
STCK07		-21.69	-21.04	-19.75	-17.85	-15.42	-12.5
1							
YBADJ	STCK07		-9.23	-5.66	-1.92	2.13	
5.86	9.40						
YBADJ	STCK07		12.67	15.54	17.95	19.81	
21.07	21.69						
YBADJ	STCK07		21.69	21.04	19.75	17.85	
15.42	12.51						
YBADJ	STCK07		9.23	5.66			
1.92	-2.13	-5.86	-9.40				

YBADJ						
STCK07	-12.67	-15.54	-17.95	-19.81	-21.07	-21.6
9						

YBADJ						
STCK08	-20.71	-19.33	-17.37	-14.87	-11.93	-8.6
2						

YBADJ	STCK08					
9.88	13.07	-5.05	-1.33	2.44	6.38	

YBADJ	STCK08					
21.60	21.46	15.86	18.17	19.93	21.08	

YBADJ	STCK08					
11.93	8.62	20.71	19.33	17.37	14.87	

YBADJ	STCK08					
1.33	-2.44	-6.38	5.05	-9.88	-13.07	

YBADJ						
STCK08	-15.86	-18.17	-19.93	-21.08	-21.60	-21.4
6						

YBADJ	STCK09					
33.16	24.33	-22.09	-21.35	-19.95	40.98	

YBADJ	STCK09					
4.75	-5.42	-15.59	14.76	-25.18	-34.00	

YBADJ	STCK09					
21.25	21.59	-41.79	15.89	18.25	20.06	

YBADJ	STCK09					
7.32	-7.17	-21.44	-40.98	-33.16	-24.33	

YBADJ	STCK09					
25.18	34.00	-14.76	5.33	1.50	-2.54	

YBADJ	STCK09					
41.79	-15.89	-18.25	-20.06	-21.25	-22.17	

YBADJ	STCK10					
36.27	27.81	-21.26	-19.86	-17.86	43.63	

YBADJ	STCK10					
8.64	-1.49	-11.75	18.51	-21.54	-30.67	

YBADJ	STCK10					
21.79	21.44	-38.87	18.30	20.09	21.26	

YBADJ	STCK10					
6.49	-8.65	-23.53	-43.63	-36.27	-27.81	

YBADJ	STCK10					
21.54	30.67	-18.51	1.44	-2.43	-6.38	

YBADJ	STCK10					
38.87	-18.30	-20.09	-21.26	-21.79	-22.02	

YBADJ						
STCK11	-7.07	-11.55	-15.68	-19.34	-22.41	-24.7
9						

YBADJ						
STCK11	-26.42	-27.25	-27.26	-26.61	-25.04	-22.7
0						

YBADJ

STCK11		-19.68	-16.06	-11.95	-7.47	-2.77
2.38						
YBADJ	STCK11		7.07	11.55	15.68	19.34
22.41	24.79					
YBADJ	STCK11		26.42	27.25	27.26	26.61
25.04	22.70					
YBADJ	STCK11		19.68	16.06	11.95	7.47
2.77	-2.38					
YBADJ						
STCK12		-2.84	-7.50	-11.94	-16.01	-19.59
8						
YBADJ						
STCK12		-24.88	-26.43	-27.17	-27.27	-26.43
7						
YBADJ						
STCK12		-22.37	-19.28	-15.61	-11.47	-6.98
0						
YBADJ	STCK12		2.84	7.50	11.94	16.01
19.59	22.58					
YBADJ	STCK12		24.88	26.43	27.18	27.27
26.43	24.77					
YBADJ	STCK12		22.37	19.28	15.61	11.47
6.98	1.90					
YBADJ						
STCK13		-35.75	-38.92	-40.90	-41.65	-41.13
6						
YBADJ						
STCK13		-36.39	-32.32	-27.26	-21.44	-14.97
5						
YBADJ	STCK13		-0.88	30.81	41.04	19.92
25.92	31.49					
YBADJ	STCK13		35.75	38.92	40.90	41.65
41.13	39.36					
YBADJ	STCK13		36.39	37.89	27.26	15.99
4.12	-7.88					
YBADJ						
STCK13		-19.65	-30.81	-41.04	-19.92	-25.92
9						
YBADJ						
STCK14		-31.35	-34.72	-37.04	-38.24	-38.27
4						
YBADJ						
STCK14		-34.88	-37.13	-27.28	-22.24	-16.52
0						
YBADJ	STCK14		-3.76	27.37	37.16	15.72
21.51	27.02					
YBADJ	STCK14		31.35	34.72	37.04	38.24
38.27	37.14					
YBADJ	STCK14		34.88	37.13	27.28	16.79

5.67	-5.63						
	YBADJ						
STCK14		-16.76	-27.37	-37.16	-15.72	-21.51	-27.0
2							
	YBADJ	STCK15		-7.05	-11.54	-15.67	-19.33
46.50	33.72						
	YBADJ	STCK15		19.91			
5.50	-9.16	-23.83		-37.40	-49.83		
	YBADJ	STCK15		-20.02			
56.86	-12.25	-7.75		-3.01	2.18		
	YBADJ	STCK15		7.05	11.54	15.67	
19.33	-46.50	24.79					
	YBADJ	STCK15		26.42	43.53	27.04	
9.80	-7.74	49.83					
	YBADJ	STCK15		-41.58	-56.86	12.25	7.75
3.01	-2.18						
	YBADJ						
STCK16		-2.68	-7.36	-11.82	-15.93	-19.54	-22.5
7							
	YBADJ						
STCK16		-24.90	-26.48	-27.35	-27.69	-26.89	-25.2
6							
	YBADJ	STCK16		-22.87	53.46		
66.57	-11.92	-7.38		-2.26			
	YBADJ	STCK16		2.68	7.36	11.82	15.93
19.54	22.57						
	YBADJ	STCK16		24.90	42.76	27.04	
10.57	-6.22	-22.82					
	YBADJ	STCK16		-38.73	-53.46	-66.57	11.92
7.38	2.26						
	YBADJ	STCK17		21.24	19.99	18.12	15.71
12.81	9.53						
	YBADJ	STCK17		5.96			
2.21	-1.69	-5.68		-9.27	-12.58		
	YBADJ						
STCK17		-15.51	-17.97	-19.88	-21.19	-21.85	-21.8
5							
	YBADJ						
STCK17		-21.24	-19.99	-18.12	-15.71	-12.81	-9.5
3							
	YBADJ	STCK17		-5.96	-2.21	1.69	5.68
9.27	12.58						
	YBADJ	STCK17		15.51	17.97	19.88	21.19
21.85	21.85						
	YBADJ	STCK18		21.86	21.25	19.99	18.13
15.72	12.83						
	YBADJ	STCK18		9.54	5.97		
2.14	-1.90	-5.65		-9.24			

YBADJ							
STCK18	-12.55	-15.47	-17.92	-19.83	-21.14	-21.8	
1							
YBADJ							
STCK18	-21.86	-21.25	-19.99	-18.13	-15.72	-12.8	
3							
YBADJ	STCK18		-9.54	-5.97	-2.14	1.90	
5.65	9.24						
YBADJ	STCK18		12.55	15.47	17.92	19.83	
21.14	21.81						
YBADJ	STCK19		12.65				
2.85	-7.05	-16.73	-25.90	-34.28			
YBADJ							
STCK19	-17.68	-22.60	-26.92	-30.71	-33.19	-34.6	
6							
YBADJ							
STCK19	-35.08	-34.43	-32.73	-30.04	-30.88	-22.0	
5							
YBADJ	STCK19		-17.08	-11.56	-5.69	16.73	
25.90	34.28						
YBADJ	STCK19		17.68	22.60	26.92	30.71	
33.19	34.66						
YBADJ	STCK19		35.08	34.43	32.73	30.04	
30.88	22.07						
YBADJ	STCK20		13.42				
4.30	-4.96	-14.07	-22.75	-30.74			
YBADJ							
STCK20	-13.85	-18.60	-22.87	-26.74	-29.41	-31.1	
9							
YBADJ							
STCK20	-32.02	-31.88	-30.77	-28.72	-30.24	-22.1	
2							
YBADJ	STCK20		-17.85	-13.01	4.96	14.07	
22.75	30.74						
YBADJ	STCK20		13.85	18.60	22.87	26.74	
29.41	31.19						
YBADJ	STCK20		32.02	31.88	30.77	28.72	
30.24	22.14						
YBADJ	STCK21						
8.45	-5.58	-19.44	-32.70	-44.98	-55.89		
YBADJ							
STCK21	-41.40	-47.50	-52.23	-55.62	-56.99	-56.6	
4							
YBADJ							
STCK21	-54.56	-50.83	-45.55	-38.89	-35.36	-22.2	
7							
YBADJ	STCK21		-12.84	-3.06	6.82	32.70	
44.98	55.89						
YBADJ	STCK21		41.40	47.50	52.23	55.62	

56.99	56.64						
YBADJ	STCK21		54.56	50.83	45.55	38.89	
35.36	22.20						
YBADJ	STCK22						
9.11	-4.23	-17.45	-30.14	-41.92	-52.42		
YBADJ							
STCK22		-37.63	-43.54	-48.20	-51.64	-53.19	-53.1
3							
YBADJ							
STCK22		-51.45	-48.21	-43.50	-37.47	-34.62	-22.2
3							
YBADJ	STCK22		-13.50	-4.40	17.45	30.14	
41.92	52.42						
YBADJ	STCK22		37.63	43.54	48.20	51.64	
53.19	53.13						
YBADJ	STCK22		51.45	48.21	43.50	37.47	
34.62	22.16						

URBANSRC ALL

```

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
** Variable Emission Scenario: "Const"
EMISFACT A0000001 HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000001 HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000001 HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000001 HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000002 HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000002 HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000002 HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000002 HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000003 HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000003 HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000003 HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000003 HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000004 HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000004 HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000004 HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000004 HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000005 HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000005 HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000005 HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000005 HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000006 HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000006 HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000006 HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000006 HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000007 HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000007 HROFDY 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000007 HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000007 HROFDY 1.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000008 HROFDY 0.0 0.0 0.0 0.0 0.0 0.0

```









```

** Variable Emissions Type: "By Hour-of-Day (HROFDY)"
** Variable Emission Scenario: "Ops"
EMISFACT A0000051      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000051      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000051      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000051      HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000052      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000052      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000052      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000052      HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000053      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000053      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000053      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000053      HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000054      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000054      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000054      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000054      HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000055      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000055      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000055      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000055      HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000056      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000056      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000056      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000056      HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000057      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000057      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000057      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000057      HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000058      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000058      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000058      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000058      HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000076      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000076      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000076      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000076      HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000077      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000077      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000077      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000077      HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000078      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000078      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000078      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000078      HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000101      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000101      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000101      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT A0000101      HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT A0000102      HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT A0000102      HROFDY 1.0 1.0 1.0 1.0 1.0 1.0

```













EMISFACT VOL44	HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT VOL44	HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT VOL45	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL45	HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT VOL45	HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT VOL45	HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
EMISFACT VOL46	HROFDY 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT VOL46	HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT VOL46	HROFDY 1.0 1.0 1.0 1.0 1.0 1.0
EMISFACT VOL46	HROFDY 1.0 1.0 1.0 1.0 1.0 0.0
SRCGROUP Y1_All	PAREA01 PAREA02 PAREA03 PAREA04 PAREA05
A0000001 A0000002	
SRCGROUP Y1_All	A0000003 A0000004 A0000005 A0000006 A0000007
A0000008	
SRCGROUP Y1_All	A0000009 A0000010 A0000011 A0000012 A0000013
A0000014	
SRCGROUP Y1_All	A0000015 A0000016 A0000017 A0000018 A0000019
A0000020	
SRCGROUP Y1_All	A0000021 A0000022 A0000023 A0000024 A0000025
SRCGROUP Y1_On	PAREA01 PAREA02 PAREA03 PAREA04 PAREA05
SRCGROUP Y1_Off	A0000001 A0000002 A0000003 A0000004 A0000005
A0000006	
SRCGROUP Y1_Off	A0000007 A0000008 A0000009 A0000010 A0000011
A0000012	
SRCGROUP Y1_Off	A0000013 A0000014 A0000015 A0000016 A0000017
A0000018	
SRCGROUP Y1_Off	A0000019 A0000020 A0000021 A0000022 A0000023
A0000024	
SRCGROUP Y1_Off	A0000025
SRCGROUP Y2_All	PAREA06 PAREA07 PAREA08 PAREA09 A0000026
A0000027 A0000028	
SRCGROUP Y2_All	A0000029 A0000030 A0000031 A0000032 A0000033
A0000034	
SRCGROUP Y2_All	A0000035 A0000036 A0000037 A0000038 A0000039
A0000040	
SRCGROUP Y2_All	A0000041 A0000042 A0000043 A0000044 A0000045
A0000046	
SRCGROUP Y2_All	A0000047 A0000048 A0000049 A0000050
SRCGROUP Y2_On	PAREA06 PAREA07 PAREA08 PAREA09
SRCGROUP Y2_Off	A0000026 A0000027 A0000028 A0000029 A0000030
A0000031	
SRCGROUP Y2_Off	A0000032 A0000033 A0000034 A0000035 A0000036
A0000037	
SRCGROUP Y2_Off	A0000038 A0000039 A0000040 A0000041 A0000042
A0000043	
SRCGROUP Y2_Off	A0000044 A0000045 A0000046 A0000047 A0000048
A0000049	
SRCGROUP Y2_Off	A0000050
SRCGROUP Ops_All	A0000051 A0000052 A0000053 A0000054 A0000055
A0000056	
SRCGROUP Ops_All	A0000057 A0000058 A0000076 A0000077 A0000078
A0000101	

SRCGROUP Ops\_All A0000102 A0000103 A0000104 A0000105 A0000106  
 A0000107  
 SRCGROUP Ops\_All A0000108 A0000109 A0000110 A0000111 A0000112  
 A0000113  
 SRCGROUP Ops\_All A0000114 STCK01 STCK02 STCK03 STCK04 STCK05  
 STCK06  
 SRCGROUP Ops\_All STCK07 STCK08 STCK09 STCK10 STCK11 STCK12  
 STCK13 STCK14  
 SRCGROUP Ops\_All STCK15 STCK16 STCK17 STCK18 STCK19 STCK20  
 STCK21 STCK22  
 SRCGROUP Ops\_All VOL01 VOL02 VOL03 VOL04 VOL05 VOL06 VOL07  
 VOL08 VOL09  
 SRCGROUP Ops\_All VOL10 VOL11 VOL12 VOL13 VOL14 VOL15 VOL16  
 VOL17 VOL18  
 SRCGROUP Ops\_All VOL19 VOL20 VOL21 VOL22 VOL23 VOL24 VOL25  
 VOL26 VOL27  
 SRCGROUP Ops\_All VOL28 VOL29 VOL30 VOL31 VOL32 VOL33 VOL34  
 VOL35 VOL36  
 SRCGROUP Ops\_All VOL37 VOL38 VOL39 VOL40 VOL41 VOL42 VOL43  
 VOL44 VOL45  
 SRCGROUP Ops\_All VOL46  
 SRCGROUP Ops\_On STCK01 STCK02 STCK03 STCK04 STCK05 STCK06  
 STCK07 STCK08  
 SRCGROUP Ops\_On STCK09 STCK10 STCK11 STCK12 STCK13 STCK14  
 STCK15 STCK16  
 SRCGROUP Ops\_On STCK17 STCK18 STCK19 STCK20 STCK21 STCK22  
 VOL01 VOL02  
 SRCGROUP Ops\_On VOL03 VOL04 VOL05 VOL06 VOL07 VOL08 VOL09  
 VOL10 VOL11  
 SRCGROUP Ops\_On VOL12 VOL13 VOL14 VOL15 VOL16 VOL17 VOL18  
 VOL19 VOL20  
 SRCGROUP Ops\_On VOL21 VOL22 VOL23 VOL24 VOL25 VOL26 VOL27  
 VOL28 VOL29  
 SRCGROUP Ops\_On VOL30 VOL31 VOL32 VOL33 VOL34 VOL35 VOL36  
 VOL37 VOL38  
 SRCGROUP Ops\_On VOL39 VOL40 VOL41 VOL42 VOL43 VOL44 VOL45  
 VOL46  
 SRCGROUP Ops\_Off A0000051 A0000052 A0000053 A0000054 A0000055  
 A0000056  
 SRCGROUP Ops\_Off A0000057 A0000058 A0000076 A0000077 A0000078  
 A0000101  
 SRCGROUP Ops\_Off A0000102 A0000103 A0000104 A0000105 A0000106  
 A0000107  
 SRCGROUP Ops\_Off A0000108 A0000109 A0000110 A0000111 A0000112  
 A0000113  
 SRCGROUP Ops\_Off A0000114  
 SRCGROUP Ops\_Idle STCK01 STCK02 STCK03 STCK04 STCK05 STCK06  
 STCK07 STCK08  
 SRCGROUP Ops\_Idle STCK09 STCK10 STCK11 STCK12 STCK13 STCK14  
 STCK15 STCK16  
 SRCGROUP Ops\_Idle STCK17 STCK18 STCK19 STCK20 STCK21 STCK22  
 SRCGROUP Ops\_Driv VOL01 VOL02 VOL03 VOL04 VOL05 VOL06 VOL07

```

VOL08 VOL09
  SRCGROUP Ops_Driv VOL10 VOL11 VOL12 VOL13 VOL14 VOL15 VOL16
VOL17 VOL18
  SRCGROUP Ops_Driv VOL19 VOL20 VOL21 VOL22 VOL23 VOL24 VOL25
VOL26 VOL27
  SRCGROUP Ops_Driv VOL28 VOL29 VOL30 VOL31 VOL32 VOL33 VOL34
VOL35 VOL36
  SRCGROUP Ops_Driv VOL37 VOL38 VOL39 VOL40 VOL41 VOL42 VOL43
VOL44 VOL45
  SRCGROUP Ops_Driv VOL46
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**
RE STARTING
  INCLUDED Menifee_PEMCOR-BP.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "Z:\Shared\San Jose\Env\17015_Menifee-PEMCOE\Project-
Materials\AERMOD\PERI_v9_ADJU\PERI_v9.SFC"
  PROFFILE "Z:\Shared\San Jose\Env\17015_Menifee-PEMCOE\Project-
Materials\AERMOD\PERI_v9_ADJU\PERI_v9.PFL"
  SURFDATA 3171 2010
  UAIRDATA 3190 2010
  PROFBASE 442.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
** Auto-Generated Plotfiles
PLOTFILE PERIOD Y1_All Menifee_PEMCOR-BP.AD\PE00G001.PLT 31
PLOTFILE PERIOD Y1_On Menifee_PEMCOR-BP.AD\PE00G002.PLT 32
PLOTFILE PERIOD Y1_Off Menifee_PEMCOR-BP.AD\PE00G003.PLT 33
PLOTFILE PERIOD Y2_All Menifee_PEMCOR-BP.AD\PE00G004.PLT 34
PLOTFILE PERIOD Y2_On Menifee_PEMCOR-BP.AD\PE00G005.PLT 35
PLOTFILE PERIOD Y2_Off Menifee_PEMCOR-BP.AD\PE00G006.PLT 36
PLOTFILE PERIOD Ops_All Menifee_PEMCOR-BP.AD\PE00G007.PLT 37
PLOTFILE PERIOD Ops_On Menifee_PEMCOR-BP.AD\PE00G008.PLT 38
PLOTFILE PERIOD Ops_Off Menifee_PEMCOR-BP.AD\PE00G009.PLT 39

```

PLOTFILE PERIOD Ops\_Idle Menifee\_PEMCOR-BP.AD\PE00G010.PLT 40  
PLOTFILE PERIOD Ops\_Driv Menifee\_PEMCOR-BP.AD\PE00G011.PLT 41  
SUMMFILE Menifee\_PEMCOR-BP.sum  
OU FINISHED

\*\*\* Message Summary For AERMOD Model Setup \*\*\*

----- Summary of Total Messages -----

A Total of                   0 Fatal Error Message(s)  
A Total of                   2 Warning Message(s)  
A Total of                   0 Informational Message(s)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
          \*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186     1995            MEOPEN: THRESH\_1MIN 1-min ASOS wind speed  
threshold used               0.50  
ME W187     1995            MEOPEN: ADJ\_U\* Option for Stable Low Winds  
used in AERMET

\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Lakes\Menifee\_PEMCOR-BP  
\Menifee\_PEMCOR-BP.isc \*\*\* 09/12/24  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 09:33:33

PAGE 1

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* MODEL SETUP

OPTIONS SUMMARY \*\*\*

\*\* Model Options Selected:

\* Model Uses Regulatory DEFAULT Options  
\* Model Is Setup For Calculation of Average CONCentration  
Values.

\* NO GAS DEPOSITION Data Provided.  
\* NO PARTICLE DEPOSITION Data Provided.  
\* Model Uses NO DRY DEPLETION. DDPLETE = F  
\* Model Uses NO WET DEPLETION. WETDPLT = F  
\* Stack-tip Downwash.  
\* Model Accounts for ELEVated Terrain Effects.  
\* Use Calms Processing Routine.  
\* Use Missing Data Processing Routine.  
\* No Exponential Decay.  
\* Model Uses URBAN Dispersion Algorithm for the SBL for  
152 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 2189641.0 ; Urban Roughness Length =  
1.000 m  
\* Urban Roughness Length of 1.0 Meter Used.  
\* ADJ\_U\* - Use ADJ\_U\* option for SBL in AERMET  
\* CCVR\_Sub - Meteorological data includes CCVR  
substitutions  
\* TEMP\_Sub - Meteorological data includes TEMP  
substitutions  
\* Model Assumes No FLAGPOLE Receptor Heights.  
\* The User Specified a Pollutant Type of: PM\_10

\*\*Model Calculates PERIOD Averages Only

\*\*This Run Includes: 152 Source(s); 11 Source Group(s);  
and 121 Receptor(s)

with: 22 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 46 VOLUME source(s)  
and: 84 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)

of 0 line(s) and: 0 BUOYANT LINE source(s) with a total  
and: 0 SWPOINT source(s)

\*\*Model Set To Continue RUNNING After the Setup Testing.

\*\*The AERMET Input Meteorological Data Version Date: 16216

\*\*Output Options Selected:  
Model Outputs Tables of PERIOD Averages by Receptor  
Model Outputs External File(s) of High Values for  
Plotting (PLOTFILE Keyword)  
Model Outputs Separate Summary File of High Ranked  
Values (SUMMFILE Keyword)

\*\*NOTE: The Following Flags May Appear Following CONC Values:  
c for Calm Hours

m for Missing Hours

b for Both Calm and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) =  
442.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units =  
GRAMS/SEC ; Emission Rate Unit  
Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.9 MB of  
RAM.

\*\*Input Runstream File: aermod.inp  
\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: Meniffee\_PEMCOR-BP.err  
\*\*File for Summary of Results: Meniffee\_PEMCOR-BP.sum

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 2

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* POINT

SOURCE DATA \*\*\*

STACK	STACK	NUMBER	EMISSION	RATE	BLDG	URBAN	CAP/	BASE
SOURCE	TEMP.	STACK	STACK	STACK	X	Y	HOR	EMIS
HEIGHT	ID	EXIT	VEL.	DIAMETER	EXISTS	SOURCE	SCALAR	RATE
(METERS)	(DEG.K)	CATS.	(M/SEC)	(METERS)	(METERS)	(METERS)	(METERS)	VARY BY
STCK01		0	0.52710E-06	483447.6	3721532.2	479.4		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK02		0	0.52710E-06	483452.1	3721532.1	479.3		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK03		0	0.52710E-06	483513.6	3721532.2	477.4		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK04		0	0.52710E-06	483517.9	3721532.3	477.4		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK05		0	0.52710E-06	483574.7	3721532.5	479.0		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK06		0	0.52710E-06	483579.1	3721532.6	479.1		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK07		0	0.52710E-06	483635.0	3721562.2	480.4		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK08		0	0.52710E-06	483635.3	3721557.8	480.4		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK09		0	0.52710E-06	483635.1	3721480.0	479.3		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK10		0	0.52710E-06	483635.3	3721476.1	479.3		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK11		0	0.52710E-06	483574.7	3721501.8	480.0		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK12		0	0.52710E-06	483579.0	3721501.8	480.0		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK13		0	0.52710E-06	483513.5	3721501.8	477.9		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK14		0	0.52710E-06	483518.0	3721501.9	477.9		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK15		0	0.52710E-06	483447.7	3721501.6	479.6		
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY	
STCK16		0	0.52710E-06	483452.2	3721501.6	479.6		

4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY
STCK17		0	0.52710E-06	483386.4	3721468.7	480.2	
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY
STCK18		0	0.52710E-06	483386.4	3721464.8	480.3	
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY
STCK19		0	0.52710E-06	483386.6	3721519.4	479.3	
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY
STCK20		0	0.52710E-06	483386.7	3721515.3	479.4	
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY
STCK21		0	0.52710E-06	483386.8	3721569.9	478.6	
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY
STCK22		0	0.52710E-06	483386.7	3721565.9	478.7	
4.12	366.00	50.00	0.10	YES	YES	NO	HROFDY

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 3

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME

SOURCE DATA \*\*\*

RELEASE SOURCE HEIGHT ID (METERS)	INIT. SY (METERS)	NUMBER PART. CATS. (METERS)	EMISSION RATE (GRAMS/SEC) SOURCE	URBAN	EMISSION RATE X SCALAR (METERS) BY	EMISSION RATE Y (METERS)	BASE AIRCRAFT ELEV. (METERS)
VOL01		0	0.67800E-06	483711.6	3721418.3	479.6	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL02		0	0.67800E-06	483699.0	3721417.8	480.2	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL03		0	0.67800E-06	483686.7	3721417.8	480.2	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL04		0	0.67800E-06	483674.9	3721417.8	480.2	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL05		0	0.67800E-06	483663.5	3721417.2	480.1	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL06		0	0.67800E-06	483651.5	3721417.8	480.1	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL07		0	0.67800E-06	483639.7	3721417.8	480.2	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL08		0	0.67800E-06	483627.7	3721421.2	480.3	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL09		0	0.67800E-06	483621.7	3721433.2	480.3	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL10		0	0.67800E-06	483622.0	3721445.5	480.1	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL11		0	0.67800E-06	483621.7	3721457.9	479.8	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL12		0	0.67800E-06	483621.7	3721469.9	479.7	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL13		0	0.61640E-06	483622.0	3721481.6	479.6	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL14		0	0.61640E-06	483622.3	3721493.3	479.6	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL15		0	0.61640E-06	483622.3	3721505.6	479.8	
4.12	5.59	5.67	YES	HROFDY	NO		
VOL16		0	0.61640E-06	483622.3	3721516.8	480.1	

4.12	5.59	5.67	YES	HROFDY	NO	
VOL17		0	0.55480E-06	483610.3	3721516.5	479.8
4.12	5.59	5.67	YES	HROFDY	NO	
VOL18		0	0.55480E-06	483599.1	3721516.5	479.7
4.12	5.59	5.67	YES	HROFDY	NO	
VOL19		0	0.55480E-06	483587.6	3721516.8	479.6
4.12	5.59	5.67	YES	HROFDY	NO	
VOL20		0	0.55480E-06	483576.2	3721516.5	479.7
4.12	5.59	5.67	YES	HROFDY	NO	
VOL21		0	0.43150E-06	483565.0	3721516.2	479.8
4.12	5.59	5.67	YES	HROFDY	NO	
VOL22		0	0.43150E-06	483553.9	3721516.5	479.8
4.12	5.59	5.67	YES	HROFDY	NO	
VOL23		0	0.43150E-06	483541.8	3721516.8	479.3
4.12	5.59	5.67	YES	HROFDY	NO	
VOL24		0	0.43150E-06	483530.1	3721516.5	478.3
4.12	5.59	5.67	YES	HROFDY	NO	
VOL25		0	0.43150E-06	483518.1	3721516.5	477.7
4.12	5.59	5.67	YES	HROFDY	NO	
VOL26		0	0.30820E-06	483506.1	3721516.5	477.7
4.12	5.59	5.67	YES	HROFDY	NO	
VOL27		0	0.30820E-06	483493.8	3721516.5	477.9
4.12	5.59	5.67	YES	HROFDY	NO	
VOL28		0	0.30820E-06	483482.3	3721516.5	478.3
4.12	5.59	5.67	YES	HROFDY	NO	
VOL29		0	0.30820E-06	483470.0	3721516.5	478.9
4.12	5.59	5.67	YES	HROFDY	NO	
VOL30		0	0.30820E-06	483458.3	3721516.5	479.3
4.12	5.59	5.67	YES	HROFDY	NO	
VOL31		0	0.30820E-06	483446.5	3721516.5	479.5
4.12	5.59	5.67	YES	HROFDY	NO	
VOL32		0	0.30820E-06	483435.1	3721516.2	479.8
4.12	5.59	5.67	YES	HROFDY	NO	
VOL33		0	0.30820E-06	483422.8	3721516.5	480.0
4.12	5.59	5.67	YES	HROFDY	NO	
VOL34		0	0.30820E-06	483411.1	3721516.5	479.9
4.12	5.59	5.67	YES	HROFDY	NO	
VOL35		0	0.30820E-06	483399.3	3721516.8	479.4
4.12	5.59	5.67	YES	HROFDY	NO	
VOL36		0	0.61640E-07	483399.6	3721528.3	479.4
4.12	5.59	5.67	YES	HROFDY	NO	
VOL37		0	0.61640E-07	483399.6	3721540.6	479.2
4.12	5.59	5.67	YES	HROFDY	NO	
VOL38		0	0.61640E-07	483399.6	3721552.0	478.9
4.12	5.59	5.67	YES	HROFDY	NO	
VOL39		0	0.61640E-07	483399.6	3721563.5	478.6
4.12	5.59	5.67	YES	HROFDY	NO	
VOL40		0	0.61640E-07	483399.6	3721505.4	479.5
4.12	5.59	5.67	YES	HROFDY	NO	

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 4

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* VOLUME

SOURCE DATA \*\*\*

RELEASE	INIT.	NUMBER	EMISSION	RATE	BASE
SOURCE	PART.	INIT.	URBAN	EMISSION	AIRCRAFT
HEIGHT	SY	SZ	SOURCE	SCALAR	ELEV.
ID	CATS.			VARY	
(METERS)	(METERS)	(METERS)		(METERS)	(METERS)
				BY	
VOL41		0	0.61640E-07	483399.6	3721493.6
4.12	5.59	5.67	YES	HROFDY	NO
VOL42		0	0.61640E-07	483399.6	3721482.2
4.12	5.59	5.67	YES	HROFDY	NO
VOL43		0	0.61640E-07	483399.6	3721470.7
4.12	5.59	5.67	YES	HROFDY	NO
VOL44		0	0.61640E-07	483622.6	3721528.4
4.12	5.59	5.67	YES	HROFDY	NO
VOL45		0	0.61640E-07	483622.8	3721540.4
4.12	5.59	5.67	YES	HROFDY	NO
VOL46		0	0.61640E-07	483623.1	3721552.5
4.12	5.59	5.67	YES	HROFDY	NO

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 5

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* AREA SOURCE

DATA \*\*\*

RELEASE RATE	X-DIM AIRCRAFT	NUMBER PART.	EMISSION (GRAMS/SEC OF AREA)	RATE ORIENT.	COORD (SW CORNER) INIT.	URBAN SOURCE	BASE EMISSION ELEV. SCALAR
SOURCE OF AREA		CATS.	/METER**2)	(DEG.)	(METERS)	(METERS)	(METERS) BY
A0000001	4.12 114.55	0	0.40470E-09	-90.04	483723.4 3721515.0	YES	477.2 HROFDY
NO							
A0000002	4.12 114.55	0	0.40470E-09	-90.04	483723.3 3721629.5	YES	475.7 HROFDY
NO							
A0000003	4.12 114.55	0	0.40470E-09	-90.04	483723.2 3721744.1	YES	475.1 HROFDY
NO							
A0000004	4.12 114.55	0	0.40470E-09	-90.04	483723.2 3721858.6	YES	473.5 HROFDY
NO							
A0000005	4.12 114.55	0	0.40470E-09	-90.04	483723.1 3721973.1	YES	471.0 HROFDY
NO							
A0000006	4.12 114.55	0	0.40470E-09	-90.04	483723.0 3722087.7	YES	469.4 HROFDY
NO							
A0000007	4.12 114.55	0	0.40470E-09	-90.04	483723.0 3722202.2	YES	468.2 HROFDY
NO							
A0000008	4.12 114.55	0	0.40470E-09	-90.04	483722.9 3722316.8	YES	466.7 HROFDY
NO							
A0000009	4.12 96.27	0	0.40470E-09	-2.89	483716.6 3722424.8	YES	463.9 HROFDY
NO							
A0000010		0	0.40470E-09		483812.8 3722429.7		464.3

4.12	96.27	13.00	-2.89	0.00	YES	HROFDY
NO						
A0000011		0	0.40470E-09	483908.9	3722434.5	465.0
4.12	96.27	13.00	-2.89	0.00	YES	HROFDY
NO						
A0000012		0	0.40470E-09	483998.7	3722443.4	464.0
4.12	114.98	13.00	67.66	0.00	YES	HROFDY
NO						
A0000013		0	0.40470E-09	484042.2	3722337.7	464.8
4.12	71.24	13.00	73.97	0.00	YES	HROFDY
NO						
A0000014		0	0.40470E-09	484061.9	3722269.3	462.8
4.12	71.24	13.00	73.97	0.00	YES	HROFDY
NO						
A0000015		0	0.40470E-09	484081.4	3722201.3	462.8
4.12	123.42	13.00	78.42	0.00	YES	HROFDY
NO						
A0000016		0	0.40470E-09	484106.1	3722081.7	464.9
4.12	124.60	13.00	89.90	0.00	YES	HROFDY
NO						
A0000017		0	0.40470E-09	484106.3	3721957.1	466.9
4.12	124.60	13.00	89.90	0.00	YES	HROFDY
NO						
A0000018		0	0.40470E-09	484106.5	3721832.5	468.8
4.12	124.60	13.00	89.90	0.00	YES	HROFDY
NO						
A0000019		0	0.40470E-09	484106.7	3721707.9	470.4
4.12	124.60	13.00	89.90	0.00	YES	HROFDY
NO						
A0000020		0	0.40470E-09	484106.9	3721583.3	472.1
4.12	124.60	13.00	89.90	0.00	YES	HROFDY
NO						
A0000021		0	0.40470E-09	484107.1	3721458.6	474.1
4.12	124.60	13.00	89.90	0.00	YES	HROFDY
NO						
A0000022		0	0.40470E-09	484107.3	3721334.0	476.4
4.12	124.60	13.00	89.90	0.00	YES	HROFDY
NO						
A0000023		0	0.40470E-09	484107.5	3721209.4	477.6
4.12	124.60	13.00	89.90	0.00	YES	HROFDY
NO						
A0000024		0	0.40470E-09	484107.8	3721084.8	479.2
4.12	124.60	13.00	89.90	0.00	YES	HROFDY
NO						
A0000025		0	0.40470E-09	484108.0	3720960.2	481.0
4.12	124.60	13.00	89.90	0.00	YES	HROFDY
NO						
A0000026		0	0.27053E-09	483723.4	3721515.0	477.2
4.12	114.54	13.00	-90.04	0.00	YES	HROFDY
NO						
A0000027		0	0.27053E-09	483723.3	3721629.5	475.7
4.12	114.54	13.00	-90.04	0.00	YES	HROFDY

NO							
A0000028		0	0.27053E-09	483723.2	3721744.1	475.1	
4.12	114.54	13.00	-90.04	0.00	YES	HROFDY	
NO							
A0000029		0	0.27053E-09	483723.2	3721858.6	473.5	
4.12	114.54	13.00	-90.04	0.00	YES	HROFDY	
NO							
A0000030		0	0.27053E-09	483723.1	3721973.1	471.0	
4.12	114.54	13.00	-90.04	0.00	YES	HROFDY	
NO							
A0000031		0	0.27053E-09	483723.0	3722087.7	469.4	
4.12	114.54	13.00	-90.04	0.00	YES	HROFDY	
NO							
A0000032		0	0.27053E-09	483723.0	3722202.2	468.2	
4.12	114.54	13.00	-90.04	0.00	YES	HROFDY	
NO							
A0000033		0	0.27053E-09	483722.9	3722316.8	466.7	
4.12	114.54	13.00	-90.04	0.00	YES	HROFDY	
NO							
A0000034		0	0.27053E-09	483716.6	3722424.8	463.9	
4.12	96.27	13.00	-2.89	0.00	YES	HROFDY	
NO							
A0000035		0	0.27053E-09	483812.8	3722429.7	464.3	
4.12	96.27	13.00	-2.89	0.00	YES	HROFDY	
NO							
A0000036		0	0.27053E-09	483908.9	3722434.5	465.0	
4.12	96.27	13.00	-2.89	0.00	YES	HROFDY	
NO							
A0000037		0	0.27053E-09	483998.7	3722443.4	464.0	
4.12	114.97	13.00	67.66	0.00	YES	HROFDY	
NO							
A0000038		0	0.27053E-09	484042.2	3722337.7	464.8	
4.12	71.24	13.00	73.97	0.00	YES	HROFDY	
NO							
A0000039		0	0.27053E-09	484061.9	3722269.3	462.8	
4.12	71.24	13.00	73.97	0.00	YES	HROFDY	
NO							
A0000040		0	0.27053E-09	484081.4	3722201.3	462.8	
4.12	123.43	13.00	78.43	0.00	YES	HROFDY	
NO							

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 6

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* AREA SOURCE

DATA \*\*\*

RELEASE RATE VARY	X-DIM AIRCRAFT	Y-DIM OF AREA	NUMBER PART. OF AREA	EMISSION RATE (GRAMS/SEC OF AREA)	ORIENT. (DEG.)	COORD (SW CORNER) INIT. (METERS)	URBAN SOURCE (METERS)	BASE EMISSION SCALAR (METERS) BY
A0000041	4.12	124.60	0	0.27053E-09	89.90	484106.1	3722081.7	464.9
NO						0.00	YES	HROFDY
A0000042	4.12	124.60	0	0.27053E-09	89.90	484106.3	3721957.1	466.9
NO						0.00	YES	HROFDY
A0000043	4.12	124.60	0	0.27053E-09	89.90	484106.5	3721832.5	468.8
NO						0.00	YES	HROFDY
A0000044	4.12	124.60	0	0.27053E-09	89.90	484106.7	3721707.9	470.4
NO						0.00	YES	HROFDY
A0000045	4.12	124.60	0	0.27053E-09	89.90	484106.9	3721583.3	472.1
NO						0.00	YES	HROFDY
A0000046	4.12	124.60	0	0.27053E-09	89.90	484107.1	3721458.6	474.1
NO						0.00	YES	HROFDY
A0000047	4.12	124.60	0	0.27053E-09	89.90	484107.3	3721334.0	476.4
NO						0.00	YES	HROFDY
A0000048	4.12	124.60	0	0.27053E-09	89.90	484107.6	3721209.4	477.6
NO						0.00	YES	HROFDY
A0000049	4.12	124.60	0	0.27053E-09	89.90	484107.8	3721084.8	479.2
NO						0.00	YES	HROFDY
A0000050			0	0.27053E-09		484108.0	3720960.2	481.0

4.12	124.60	13.00	89.90	0.00	YES	HROFDY
NO						
A0000051		0	0.23610E-08	483724.5	3721415.1	479.0
4.12	127.02	13.00	-90.09	0.00	YES	HROFDY
NO						
A0000052		0	0.23610E-08	483724.3	3721542.2	476.6
4.12	127.02	13.00	-90.09	0.00	YES	HROFDY
NO						
A0000053		0	0.23610E-08	483724.1	3721669.2	475.5
4.12	127.02	13.00	-90.09	0.00	YES	HROFDY
NO						
A0000054		0	0.23610E-08	483723.9	3721796.2	474.6
4.12	127.02	13.00	-90.09	0.00	YES	HROFDY
NO						
A0000055		0	0.23610E-08	483723.7	3721923.2	471.9
4.12	127.02	13.00	-90.09	0.00	YES	HROFDY
NO						
A0000056		0	0.23610E-08	483723.4	3722050.3	469.9
4.12	127.02	13.00	-90.09	0.00	YES	HROFDY
NO						
A0000057		0	0.23610E-08	483723.2	3722177.3	468.4
4.12	127.02	13.00	-90.09	0.00	YES	HROFDY
NO						
A0000058		0	0.23610E-08	483723.0	3722304.3	466.9
4.12	127.02	13.00	-90.09	0.00	YES	HROFDY
NO						
A0000076		0	0.23608E-08	483716.6	3722424.8	463.9
4.12	96.27	13.00	-2.89	0.00	YES	HROFDY
NO						
A0000077		0	0.23608E-08	483812.8	3722429.7	464.3
4.12	96.27	13.00	-2.89	0.00	YES	HROFDY
NO						
A0000078		0	0.23608E-08	483908.9	3722434.5	465.0
4.12	96.27	13.00	-2.89	0.00	YES	HROFDY
NO						
A0000101		0	0.23608E-08	483998.7	3722443.4	464.0
4.12	114.97	13.00	67.66	0.00	YES	HROFDY
NO						
A0000102		0	0.23608E-08	484042.2	3722337.7	464.8
4.12	71.24	13.00	73.97	0.00	YES	HROFDY
NO						
A0000103		0	0.23608E-08	484061.9	3722269.3	462.8
4.12	71.24	13.00	73.97	0.00	YES	HROFDY
NO						
A0000104		0	0.23608E-08	484081.4	3722201.3	462.8
4.12	123.43	13.00	78.43	0.00	YES	HROFDY
NO						
A0000105		0	0.23608E-08	484106.1	3722081.7	464.9
4.12	124.60	13.00	89.90	0.00	YES	HROFDY
NO						
A0000106		0	0.23608E-08	484106.3	3721957.1	466.9
4.12	124.60	13.00	89.90	0.00	YES	HROFDY

NO						
A0000107	0	0.23608E-08	484106.5	3721832.5	468.8	
4.12 124.60	13.00	89.90	0.00	YES	HROFDY	
NO						
A0000108	0	0.23608E-08	484106.7	3721707.9	470.4	
4.12 124.60	13.00	89.90	0.00	YES	HROFDY	
NO						
A0000109	0	0.23608E-08	484106.9	3721583.3	472.1	
4.12 124.60	13.00	89.90	0.00	YES	HROFDY	
NO						
A0000110	0	0.23608E-08	484107.1	3721458.6	474.1	
4.12 124.60	13.00	89.90	0.00	YES	HROFDY	
NO						
A0000111	0	0.23608E-08	484107.3	3721334.0	476.4	
4.12 124.60	13.00	89.90	0.00	YES	HROFDY	
NO						
A0000112	0	0.23608E-08	484107.6	3721209.4	477.6	
4.12 124.60	13.00	89.90	0.00	YES	HROFDY	
NO						
A0000113	0	0.23608E-08	484107.8	3721084.8	479.2	
4.12 124.60	13.00	89.90	0.00	YES	HROFDY	
NO						
A0000114	0	0.23608E-08	484108.0	3720960.2	481.0	
4.12 124.60	13.00	89.90	0.00	YES	HROFDY	
NO						

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 7

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* AREAPOLY

SOURCE DATA \*\*\*

RELEASE	NUMBER	NUMBER	EMISSION	RATE	LOCATION	OF	AREA	BASE
SOURCE	HEIGHT	OF	VERTS.	INIT.	URBAN	EMISSION	RATE	AIRCRAFT
ID	CATS.	SZ	SOURCE	(GRAMS/SEC	X	Y	ELEV.	
(METERS)	(METERS)	(METERS)	/METER**2)	(METERS)	(METERS)	(METERS)	(METERS)	
				SCALAR	VARY			
				BY				
PAREA01	0	0.35917E-07	483570.8	3721621.0	477.2			
5.00	4	0.00	YES	HROFDY	NO			
PAREA02	0	0.60600E-07	483311.9	3721620.6	479.3			
5.00	4	0.00	YES	HROFDY	NO			
PAREA03	0	0.60600E-07	483513.8	3721620.6	476.6			
5.00	4	0.00	YES	HROFDY	NO			
PAREA04	0	0.60600E-07	483314.4	3721515.2	481.0			
5.00	4	0.00	YES	HROFDY	NO			
PAREA05	0	0.60600E-07	483514.9	3721518.2	477.7			
5.00	4	0.00	YES	HROFDY	NO			
PAREA06	0	0.18600E-07	483311.9	3721620.6	479.3			
5.00	4	0.00	YES	HROFDY	NO			
PAREA07	0	0.18600E-07	483513.8	3721620.6	476.6			
5.00	4	0.00	YES	HROFDY	NO			
PAREA08	0	0.18600E-07	483314.4	3721515.2	481.0			
5.00	4	0.00	YES	HROFDY	NO			
PAREA09	0	0.18600E-07	483514.9	3721518.2	477.7			
5.00	4	0.00	YES	HROFDY	NO			

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 8

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs

DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID					SOURCE			
IDs					-----			
-----					-----			
---					---			
Y1_ALL	PAREA01	,	PAREA02	,	PAREA03	,		
PAREA04	,	PAREA05	,	A0000001	,	A0000002	,	
A0000003	,							
	A0000004	,	A0000005	,	A0000006	,		
A0000007	,	A0000008	,	A0000009	,	A0000010	,	
A0000011	,							
	A0000012	,	A0000013	,	A0000014	,		
A0000015	,	A0000016	,	A0000017	,	A0000018	,	
A0000019	,							
	A0000020	,	A0000021	,	A0000022	,		
A0000023	,	A0000024	,	A0000025	,			
	Y1_ON		PAREA01	,	PAREA02	,	PAREA03	,
PAREA04	,	PAREA05	,					
	Y1_OFF		A0000001	,	A0000002	,	A0000003	,
A0000004	,	A0000005	,	A0000006	,	A0000007	,	
A0000008	,							
	A0000009	,	A0000010	,	A0000011	,		
A0000012	,	A0000013	,	A0000014	,	A0000015	,	
A0000016	,							
	A0000017	,	A0000018	,	A0000019	,		
A0000020	,	A0000021	,	A0000022	,	A0000023	,	
A0000024	,							
	A0000025	,						
	Y2_ALL		PAREA06	,	PAREA07	,	PAREA08	,
PAREA09	,	A0000026	,	A0000027	,	A0000028	,	

A0000029	,				
		A0000030	,	A0000031	,
A0000033	,	A0000034	,	A0000035	,
A0000037	,			A0000036	,
		A0000038	,	A0000039	,
A0000041	,	A0000042	,	A0000043	,
A0000045	,			A0000044	,
		A0000046	,	A0000047	,
A0000049	,	A0000050	,		,
Y2_ON		PAREA06	,	PAREA07	,
PAREA09	,			PAREA08	,
		A0000026	,	A0000027	,
Y2_OFF		A0000030	,	A0000031	,
A0000029	,			A0000032	,
A0000033	,				,
		A0000034	,	A0000035	,
A0000037	,	A0000038	,	A0000039	,
A0000041	,			A0000040	,
		A0000042	,	A0000043	,
A0000045	,	A0000046	,	A0000047	,
A0000049	,			A0000048	,
		A0000050	,		,
OPS_ALL		STCK01	,	STCK02	,
STCK04	,	STCK05	,	STCK06	,
STCK08	,			STCK07	,
		STCK09	,	STCK10	,
STCK12	,	STCK13	,	STCK14	,
STCK16	,			STCK11	,
				STCK15	,

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 9

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs

DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID					SOURCE
IDs					-----
-----					-----
---					---
STCK20	STCK17	,	STCK18	,	STCK19
VOL02	, STCK21	,	STCK22	,	VOL01
	,				,
VOL06	VOL03	,	VOL04	,	VOL05
VOL10	, VOL07	,	VOL08	,	VOL09
	,				,
VOL14	VOL11	,	VOL12	,	VOL13
VOL18	, VOL15	,	VOL16	,	VOL17
	,				,
VOL22	VOL19	,	VOL20	,	VOL21
VOL26	, VOL23	,	VOL24	,	VOL25
	,				,
VOL30	VOL27	,	VOL28	,	VOL29
VOL34	, VOL31	,	VOL32	,	VOL33
	,				,
VOL38	VOL35	,	VOL36	,	VOL37
VOL42	, VOL39	,	VOL40	,	VOL41
	,				,
VOL46	VOL43	,	VOL44	,	VOL45
A0000054	, A0000051	,	A0000052	,	A0000053
	,				,
A0000058	A0000055	,	A0000056	,	A0000057
A0000101	, A0000076	,	A0000077	,	A0000078
	,				,
A0000105	A0000102	,	A0000103	,	A0000104
	, A0000106	,	A0000107	,	A0000108
	,				,

A0000109	,				
		A0000110	,	A0000111	,
A0000113	,	A0000114	,		
OPS_ON		STCK01	,	STCK02	,
STCK04	,	STCK05	,	STCK06	,
STCK08	,				
		STCK09	,	STCK10	,
STCK12	,	STCK13	,	STCK14	,
STCK16	,				
		STCK17	,	STCK18	,
STCK20	,	STCK21	,	STCK22	,
VOL02	,			VOL01	,
		VOL03	,	VOL04	,
VOL06	,	VOL07	,	VOL08	,
VOL10	,			VOL09	,
		VOL11	,	VOL12	,
VOL14	,	VOL15	,	VOL16	,
VOL18	,			VOL17	,
		VOL19	,	VOL20	,
VOL22	,	VOL23	,	VOL24	,
VOL26	,			VOL25	,
		VOL27	,	VOL28	,
VOL30	,	VOL31	,	VOL32	,
VOL34	,			VOL33	,
		VOL35	,	VOL36	,
VOL38	,	VOL39	,	VOL40	,
VOL42	,			VOL41	,
		VOL43	,	VOL44	,
VOL46	,			VOL45	,
		OPS_OFF		A0000051	,
A0000054	,	A0000055	,	A0000052	,
A0000058	,			A0000053	,
				A0000056	,
				A0000057	,

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 10

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs

DEFINING SOURCE GROUPS \*\*\*

SRCGROUP ID					SOURCE
IDs					-----
-----					-----
---					---
A0000101	A0000076	,	A0000077	,	A0000078
A0000105	, A0000102	,	A0000103	,	A0000104
	,				
A0000109	A0000106	,	A0000107	,	A0000108
A0000113	, A0000110	,	A0000111	,	A0000112
	,				
	A0000114	,			
OPS_IDLE	STCK01	,	STCK02	,	STCK03
STCK04	, STCK05	,	STCK06	,	STCK07
STCK08	,				
	STCK09	,	STCK10	,	STCK11
STCK12	, STCK13	,	STCK14	,	STCK15
STCK16	,				
	STCK17	,	STCK18	,	STCK19
STCK20	, STCK21	,	STCK22	,	
OPS_DRIV	VOL01	,	VOL02	,	VOL03
VOL04	, VOL05	,	VOL06	,	VOL07
VOL08	,				
	VOL09	,	VOL10	,	VOL11
VOL12	, VOL13	,	VOL14	,	VOL15
VOL16	,				
	VOL17	,	VOL18	,	VOL19
VOL20	, VOL21	,	VOL22	,	VOL23
VOL24	,				
	VOL25	,	VOL26	,	VOL27

VOL28	,	VOL29	,	VOL30	,	VOL31	,
VOL32	,						
		VOL33	,	VOL34	,	VOL35	,
VOL36	,	VOL37	,	VOL38	,	VOL39	,
VOL40	,						
		VOL41	,	VOL42	,	VOL43	,
VOL44	,	VOL45	,	VOL46	,		

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 11

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* SOURCE IDs DEFINED

AS URBAN SOURCES \*\*\*

URBAN ID IDs ----- ---	URBAN POP -----	SOURCE -----			
PAREA03 PAREA07 PAREA08	2189641. , PAREA04 , ,	PAREA01 , PAREA05	, PAREA02 , PAREA06	, , ,	
A0000003 A0000007	, PAREA09 , A0000004 ,	, A0000001 , A0000005	, A0000002 , A0000006	, , ,	
A0000011 A0000015	, A0000008 , A0000012 ,	, A0000009 , A0000013	, A0000010 , A0000014	, , ,	
A0000019 A0000023	, A0000016 , A0000020 ,	, A0000017 , A0000021	, A0000018 , A0000022	, , ,	
A0000027 A0000031	, A0000024 , A0000028 ,	, A0000025 , A0000029	, A0000026 , A0000030	, , ,	
A0000035 A0000039	, A0000032 , A0000036 ,	, A0000033 , A0000037	, A0000034 , A0000038	, , ,	
A0000043 A0000047	, A0000040 , A0000044 ,	, A0000041 , A0000045	, A0000042 , A0000046	, , ,	
STCK01 STCK05	, A0000048 , STCK02 ,	, A0000049 , STCK03	, A0000050 , STCK04	, , ,	
	, STCK06	, STCK07	, STCK08	, ,	

STCK09	, STCK10	, STCK11	, STCK12	,
STCK13	,			
	STCK14	, STCK15	, STCK16	,
STCK17	, STCK18	, STCK19	, STCK20	,
STCK21	,			
	STCK22	, VOL01	, VOL02	,
VOL03	, VOL04	, VOL05	, VOL06	,
VOL07	,			
	VOL08	, VOL09	, VOL10	,
VOL11	, VOL12	, VOL13	, VOL14	,
VOL15	,			
	VOL16	, VOL17	, VOL18	,
VOL19	, VOL20	, VOL21	, VOL22	,
VOL23	,			
	VOL24	, VOL25	, VOL26	,
VOL27	, VOL28	, VOL29	, VOL30	,
VOL31	,			
	VOL32	, VOL33	, VOL34	,
VOL35	, VOL36	, VOL37	, VOL38	,
VOL39	,			
	VOL40	, VOL41	, VOL42	,
VOL43	, VOL44	, VOL45	, VOL46	,
A0000051	,			
	A0000052	, A0000053	, A0000054	,
A0000055	, A0000056	, A0000057	, A0000058	,
A0000076	,			
	A0000077	, A0000078	, A0000101	,
A0000102	, A0000103	, A0000104	, A0000105	,
A0000106	,			
	A0000107	, A0000108	, A0000109	,
A0000110	, A0000111	, A0000112	, A0000113	,
A0000114	,			

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 12

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC

BUILDING DIMENSIONS \*\*\*

```

SOURCE ID: STCK01
IFV   BH   BW   BL   XADJ   YADJ   IFV   BH
BW    BL   XADJ  YADJ
  1  12.2,  68.5,  67.8, -90.9, -12.5,   2  12.2,
75.7,  75.0, -91.5, -22.1,
  3  12.2,  80.7,  80.0, -89.5, -31.1,   4  12.2,
96.0, 101.1, -134.6, 38.1,
  5  12.2, 101.7,  95.5, -137.1, 23.0,   6  12.2,
104.3,  86.9, -135.4,  7.2,
  7  12.2, 103.8,  75.7, -129.5, -8.9,   8  12.2,
100.1,  62.2, -119.8, -24.6,
  9  12.2,  93.5,  47.1, -106.5, -39.7,  10  12.2,
99.5,  62.5, -106.1, -53.9,
 11  12.2,  98.1, 135.7, -15.8, -42.5,  12  12.2,
113.3, 135.9, -9.3, -32.8,
 13  12.2,  82.6,  83.2, -2.5, -43.3,  14  12.2,
82.6,  83.1,  4.3, -35.9,
 15  12.2,  80.2,  80.6, 11.0, -27.4,  16  12.2,
75.3,  75.6, 17.4, -18.1,
 17  12.2,  68.1,  68.3, 23.2, -8.2,  18  12.2,
59.4,  58.8, -58.0,  2.3,
 19  12.2,  68.5,  67.8, 23.1, 12.5,  20  12.2,
75.7,  75.0, 16.5, 22.1,
 21  12.2,  80.7,  80.0,  9.4, 31.1,  22  12.2,
83.2,  82.6,  2.0, 39.1,
 23  12.2,  83.1,  82.6, -5.4, 45.9,  24  12.2,
148.0, 112.0, 23.3, -29.0,
 25  12.2,  75.4,  75.3, -49.8, -26.2,  26  12.2,
68.1,  68.2, -41.5, -27.8,
 27  12.2,  58.8,  59.4, -32.0, -28.6,  28  12.2,
77.6, 122.5, -167.2, 39.9,
 29  12.2,  94.0, 127.4, -174.9, 20.9,  30  12.2,
107.5, 128.3, -177.3,  1.4,
 31  12.2, 117.8, 125.4, -174.4, -18.3,  32  12.2,
124.5, 118.7, -166.1, -37.3,
 33  12.2, 127.5, 108.3, -152.8, -55.3,  34  12.2,
75.3,  75.6, -93.0, 18.1,
 35  12.2,  68.1,  68.3, -91.5,  8.2,  36  12.2,
59.5,  59.1, -87.4, -2.3,

```

SOURCE ID: STCK02							
IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	68.5,	67.8,	-91.6,	-8.1,	2	12.2,
75.7,	75.0,	-93.0,	-17.9,				
3	12.2,	80.7,	80.0,	-91.6,	-27.2,	4	12.2,
83.2,	82.6,	-87.5,	-35.6,				
5	12.2,	83.1,	82.6,	-80.6,	-43.0,	6	12.2,
80.4,	80.2,	-27.6,	26.1,				
7	12.2,	75.4,	75.3,	-29.8,	27.8,	8	12.2,
68.1,	68.2,	-31.1,	28.7,				
9	12.2,	58.8,	59.4,	-31.9,	28.7,	10	12.2,
67.7,	68.2,	-41.5,	27.7,				
11	12.2,	98.1,	135.7,	-20.0,	-44.0,	12	12.2,
113.3,	135.9,	-13.2,	-35.0,				
13	12.2,	82.6,	83.2,	-6.0,	-46.2,	14	12.2,
82.6,	83.1,	1.4,	-39.3,				
15	12.2,	80.2,	80.6,	8.7,	-31.3,	16	12.2,
75.3,	75.6,	15.8,	-22.3,				
17	12.2,	68.1,	68.3,	22.4,	-12.6,	18	12.2,
59.4,	58.8,	-58.1,	-2.2,				
19	12.2,	68.5,	67.8,	23.8,	8.1,	20	12.2,
75.7,	75.0,	18.0,	17.9,				
21	12.2,	80.7,	80.0,	11.6,	27.2,	22	12.2,
83.2,	82.6,	4.9,	35.6,				
23	12.2,	83.1,	82.6,	-2.0,	43.0,	24	12.2,
80.4,	80.2,	-52.6,	-26.1,				
25	12.2,	75.4,	75.3,	-45.6,	-27.8,	26	12.2,
68.1,	68.2,	-37.1,	-28.7,				
27	12.2,	58.8,	59.4,	-27.5,	-28.7,	28	12.2,
77.6,	122.5,	-162.8,	40.6,				
29	12.2,	94.0,	127.4,	-170.7,	22.4,	30	12.2,
107.5,	128.3,	-173.4,	3.5,				
31	12.2,	117.8,	125.4,	-170.9,	-15.4,	32	12.2,
124.5,	118.7,	-163.1,	-33.9,				
33	12.2,	127.5,	108.3,	-150.5,	-51.4,	34	12.2,
126.5,	94.7,	-133.2,	-67.3,				
35	12.2,	68.1,	68.3,	-90.7,	12.6,	36	12.2,
59.5,	59.1,	-87.4,	2.2,				

SOURCE ID: STCK03							
IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	122.5,	77.6,	-90.2,	-40.9,	2	12.2,
127.4,	94.0,	-90.5,	-49.2,				
3	12.2,	128.3,	107.5,	-88.2,	-56.0,	4	12.2,
125.4,	117.8,	-83.1,	-61.1,				
5	12.2,	118.7,	124.5,	-75.6,	-64.3,	6	12.2,
80.6,	80.2,	-124.7,	-18.3,				
7	12.2,	75.6,	75.3,	-117.8,	-32.6,	8	12.2,

68.1,	68.2,	-91.7,	39.3,				
9	12.2,	58.8,	59.4,	-93.4,	28.6,	10	12.2,
67.7,	68.2,	-102.1,	16.9,				
11	12.2,	94.0,	127.4,	-14.5,	-43.6,	12	12.2,
107.5,	128.3,	-8.2,	-34.4,				
13	12.2,	117.8,	125.4,	-1.6,	-24.2,	14	12.2,
124.5,	118.7,	5.0,	-13.3,				
15	12.2,	127.5,	108.3,	11.4,	-2.0,	16	12.2,
126.5,	94.7,	17.6,	9.4,				
17	12.2,	121.7,	78.2,	23.1,	20.5,	18	12.2,
123.4,	58.9,	-58.0,	-31.7,				
19	12.2,	122.5,	77.6,	12.6,	40.9,	20	12.2,
127.4,	94.0,	-3.4,	49.2,				
21	12.2,	128.3,	107.5,	-19.4,	56.0,	22	12.2,
125.4,	117.8,	-34.7,	61.1,				
23	12.2,	118.7,	124.5,	-49.0,	64.3,	24	12.2,
112.1,	136.7,	-12.0,	34.1,				
25	12.2,	97.0,	136.4,	-18.6,	43.3,	26	12.2,
68.1,	68.2,	23.5,	-39.3,				
27	12.2,	58.9,	123.4,	-30.0,	-28.5,	28	12.2,
79.1,	131.7,	-29.7,	-22.6,				
29	12.2,	72.3,	67.1,	-112.9,	32.7,	30	12.2,
75.7,	72.8,	-120.1,	18.5,				
31	12.2,	76.8,	76.3,	-123.8,	3.7,	32	12.2,
75.5,	77.4,	-123.6,	-11.2,				
33	12.2,	72.0,	76.2,	-119.8,	-25.7,	34	12.2,
126.5,	94.7,	-112.2,	-9.4,				
35	12.2,	121.7,	78.2,	-101.3,	-20.5,	36	12.2,
114.0,	59.3,	-87.3,	-31.4,				

SOURCE ID: STCK04

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	122.5,	77.6,	-91.0,	-36.7,	2	12.2,
127.4,	94.0,	-92.1,	-45.2,				
3	12.2,	128.3,	107.5,	-90.4,	-52.3,	4	12.2,
125.4,	117.8,	-85.9,	-57.9,				
5	12.2,	118.7,	124.5,	-78.9,	-61.6,	6	12.2,
80.6,	80.2,	-128.5,	-16.3,				
7	12.2,	75.6,	75.3,	-121.8,	-31.2,	8	12.2,
68.1,	68.2,	-95.9,	39.9,				
9	12.2,	58.8,	59.4,	-97.7,	28.5,	10	12.2,
67.7,	68.2,	-106.3,	16.1,				
11	12.2,	94.0,	127.4,	-18.5,	-45.1,	12	12.2,
107.5,	128.3,	-11.8,	-36.6,				
13	12.2,	117.8,	125.4,	-4.8,	-27.0,	14	12.2,
124.5,	118.7,	2.3,	-16.6,				
15	12.2,	127.5,	108.3,	9.4,	-5.7,	16	12.2,
126.5,	94.7,	16.2,	5.4,				
17	12.2,	121.7,	78.2,	22.5,	16.3,	18	12.2,
123.4,	58.9,	-57.9,	-36.0,				

19	12.2,	122.5,	77.6,	13.4,	36.7,	20	12.2,
127.4,	94.0,	-1.9,	45.2,				
21	12.2,	128.3,	107.5,	-17.2,	52.3,	22	12.2,
125.4,	117.8,	-31.9,	57.9,				
23	12.2,	118.7,	124.5,	-45.6,	61.6,	24	12.2,
112.1,	136.7,	-8.3,	32.0,				
25	12.2,	97.0,	136.4,	-14.6,	42.0,	26	12.2,
79.3,	131.2,	-35.2,	-34.3,				
27	12.2,	58.9,	123.4,	-25.7,	-28.4,	28	12.2,
79.1,	131.7,	-25.5,	-21.8,				
29	12.2,	72.3,	67.1,	-108.9,	34.2,	30	12.2,
75.7,	72.8,	-116.5,	20.7,				
31	12.2,	76.8,	76.3,	-120.6,	6.5,	32	12.2,
75.5,	77.4,	-121.0,	-7.9,				
33	12.2,	72.0,	76.2,	-117.7,	-22.0,	34	12.2,
66.3,	72.8,	-110.9,	-35.5,				
35	12.2,	121.7,	78.2,	-100.6,	-16.3,	36	12.2,
114.0,	59.3,	-87.4,	-27.1,				

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 13

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC

BUILDING DIMENSIONS \*\*\*

```

SOURCE ID: STCK05
IFV   BH   BW   BL   XADJ   YADJ   IFV   BH
BW    BL   XADJ  YADJ
  1  12.2,  59.3,  66.7, -90.2, -12.4,   2  12.2,
67.1,  72.3, -90.0, -22.1,
  3  12.2,  72.8,  75.7, -87.1, -31.1,   4  12.2,
76.3,  76.8, -81.6, -39.1,
  5  12.2, 118.7, 124.5, -122.5, -25.3,   6  12.2,
108.3, 127.5, -118.7, -35.4,
  7  12.2,  94.7, 126.5, -111.3, -44.3,   8  12.2,
78.9, 132.0, -167.4, -41.0,
  9  12.2,  58.9, 123.4, -154.5,  28.2,  10  12.2,
79.1, 131.7, -162.1,  11.7,
 11  12.2,  97.1, 136.1, -164.9,  -5.2,  12  12.2,
112.2, 136.3, -162.6, -21.9,
 13  12.2,  76.8,  76.3,   1.0, -43.2,  14  12.2,
75.5,  77.4,   7.2, -35.8,
 15  12.2,  72.0,  76.2,  13.3, -27.3,  16  12.2,
66.3,  72.8,  18.9, -17.9,
 17  12.2,  58.6,  67.0,  24.0,  -8.1,  18  12.2,
49.5,  59.0, -57.6,   1.8,
 19  12.2,  59.3,  66.7,  23.5,  12.4,  20  12.2,
67.1,  72.3,  17.7,  22.1,
 21  12.2,  72.8,  75.7,  11.4,  31.1,  22  12.2,
76.3,  76.8,   4.8,  39.1,
 23  12.2, 118.7, 124.5,  -2.0,  25.3,  24  12.2,
108.3, 127.5,  -8.8,  35.4,
 25  12.2,  94.7, 126.5, -15.2,  44.3,  26  12.2,
66.1,  56.3, -113.8, -13.1,
 27  12.2,  58.8,  47.2, -105.7, -27.7,  28  12.2,
66.5,  58.7, -26.1, -28.1,
 29  12.2,  72.1,  66.3, -25.0, -27.2,  30  12.2,
75.5,  71.9, -23.2, -25.4,
 31  12.2,  76.8,  76.3, -77.2,  43.2,  32  12.2,
75.5,  77.4, -84.7,  35.8,
 33  12.2,  72.0,  76.2, -89.5,  27.3,  34  12.2,
66.3,  72.8, -91.7,  17.9,
 35  12.2,  58.6,  67.0, -91.0,   8.1,  36  12.2,
49.8,  59.3, -87.6,  -2.4,

```

## SOURCE ID: STCK06

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	59.3,	66.7,	-91.0,	-8.1,	2	12.2,
67.1,	72.3,	-91.6,	-17.9,				
3	12.2,	72.8,	75.7,	-89.4,	-27.3,	4	12.2,
76.3,	76.8,	-84.5,	-35.8,				
5	12.2,	77.4,	75.5,	-77.0,	-43.2,	6	12.2,
108.3,	127.5,	-122.6,	-33.2,				
7	12.2,	94.7,	126.5,	-115.5,	-42.9,	8	12.2,
78.9,	132.0,	-171.8,	-40.3,				
9	12.2,	58.9,	123.4,	-158.9,	28.1,	10	12.2,
79.1,	131.7,	-166.5,	10.8,				
11	12.2,	97.1,	136.1,	-169.0,	-6.8,	12	12.2,
112.2,	136.3,	-166.4,	-24.2,				
13	12.2,	123.9,	132.3,	-158.7,	-40.8,	14	12.2,
75.5,	77.4,	4.4,	-39.2,				
15	12.2,	72.0,	76.2,	11.1,	-31.2,	16	12.2,
66.3,	72.8,	17.5,	-22.1,				
17	12.2,	58.6,	67.0,	23.3,	-12.5,	18	12.2,
49.5,	59.0,	-57.5,	-2.7,				
19	12.2,	59.3,	66.7,	24.4,	8.1,	20	12.2,
67.1,	72.3,	19.3,	17.9,				
21	12.2,	72.8,	75.7,	13.7,	27.3,	22	12.2,
76.3,	76.8,	7.7,	35.8,				
23	12.2,	77.4,	75.5,	1.4,	43.2,	24	12.2,
108.3,	127.5,	-4.9,	33.2,				
25	12.2,	94.7,	126.5,	-11.0,	42.9,	26	12.2,
66.1,	56.3,	-109.4,	-13.8,				
27	12.2,	58.8,	47.2,	-101.2,	-27.7,	28	12.2,
66.5,	58.7,	-21.7,	-27.2,				
29	12.2,	72.1,	66.3,	-20.9,	-25.6,	30	12.2,
75.5,	71.9,	-19.4,	-23.1,				
31	12.2,	76.6,	75.2,	-17.4,	-20.0,	32	12.2,
75.5,	77.4,	-81.9,	39.2,				
33	12.2,	72.0,	76.2,	-87.4,	31.2,	34	12.2,
66.3,	72.8,	-90.2,	22.1,				
35	12.2,	58.6,	67.0,	-90.3,	12.5,	36	12.2,
49.8,	59.3,	-87.7,	2.0,				

## SOURCE ID: STCK07

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	56.7,	65.5,	-30.6,	-21.7,	2	12.2,
64.5,	70.8,	-29.5,	-21.0,				
3	12.2,	70.3,	73.9,	-27.6,	-19.8,	4	12.2,
74.0,	74.8,	-24.7,	-17.9,				
5	12.2,	75.4,	73.4,	-21.1,	-15.4,	6	12.2,
74.5,	69.7,	-16.9,	-12.5,				
7	12.2,	71.4,	64.0,	-12.2,	-9.2,	8	12.2,

66.1,	56.3,	-7.1,	-5.7,				
9	12.2,	58.8,	47.2,	-1.9,	-1.9,	10	12.2,
65.5,	56.7,	-6.7,	2.1,				
11	12.2,	70.8,	64.5,	-11.2,	5.9,	12	12.2,
73.9,	70.3,	-15.4,	9.4,				
13	12.2,	74.8,	74.0,	-19.1,	12.7,	14	12.2,
73.4,	75.4,	-22.3,	15.5,				
15	12.2,	69.7,	74.5,	-24.8,	17.9,	16	12.2,
64.0,	71.4,	-26.5,	19.8,				
17	12.2,	56.3,	66.1,	-27.4,	21.1,	18	12.2,
47.2,	58.8,	-27.5,	21.7,				
19	12.2,	56.7,	65.5,	-34.9,	21.7,	20	12.2,
64.5,	70.8,	-41.2,	21.0,				
21	12.2,	70.3,	73.9,	-46.4,	19.8,	22	12.2,
74.0,	74.8,	-50.0,	17.9,				
23	12.2,	75.4,	73.4,	-52.2,	15.4,	24	12.2,
74.5,	69.7,	-52.8,	12.5,				
25	12.2,	71.4,	64.0,	-51.8,	9.2,	26	12.2,
66.1,	56.3,	-49.2,	5.7,				
27	12.2,	58.8,	47.2,	-45.3,	1.9,	28	12.2,
65.5,	56.7,	-50.0,	-2.1,				
29	12.2,	70.8,	64.5,	-53.3,	-5.9,	30	12.2,
73.9,	70.3,	-54.9,	-9.4,				
31	12.2,	74.8,	74.0,	-54.8,	-12.7,	32	12.2,
73.4,	75.4,	-53.1,	-15.5,				
33	12.2,	69.7,	74.5,	-49.8,	-17.9,	34	12.2,
64.0,	71.4,	-44.9,	-19.8,				
35	12.2,	56.3,	66.1,	-38.7,	-21.1,	36	12.2,
47.2,	58.8,	-31.3,	-21.7,				

SOURCE ID: STCK08

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	56.7,	65.5,	-26.4,	-20.7,	2	12.2,
64.5,	70.8,	-25.5,	-19.3,				
3	12.2,	70.3,	73.9,	-23.9,	-17.4,	4	12.2,
74.0,	74.8,	-21.5,	-14.9,				
5	12.2,	75.4,	73.4,	-18.5,	-11.9,	6	12.2,
74.5,	69.7,	-14.9,	-8.6,				
7	12.2,	71.4,	64.0,	-10.9,	-5.0,	8	12.2,
66.1,	56.3,	-6.5,	-1.3,				
9	12.2,	58.8,	47.2,	-2.1,	2.4,	10	12.2,
65.5,	56.7,	-7.6,	6.4,				
11	12.2,	70.8,	64.5,	-12.9,	9.9,	12	12.2,
73.9,	70.3,	-17.8,	13.1,				
13	12.2,	74.8,	74.0,	-22.1,	15.9,	14	12.2,
73.4,	75.4,	-25.8,	18.2,				
15	12.2,	69.7,	74.5,	-28.7,	19.9,	16	12.2,
64.0,	71.4,	-30.7,	21.1,				
17	12.2,	56.3,	66.1,	-31.7,	21.6,	18	12.2,
47.2,	58.8,	-31.8,	21.5,				

19	12.2,	56.7,	65.5,	-39.1,	20.7,	20	12.2,
64.5,	70.8,	-45.3,	19.3,				
21	12.2,	70.3,	73.9,	-50.0,	17.4,	22	12.2,
74.0,	74.8,	-53.2,	14.9,				
23	12.2,	75.4,	73.4,	-54.8,	11.9,	24	12.2,
74.5,	69.7,	-54.8,	8.6,				
25	12.2,	71.4,	64.0,	-53.1,	5.0,	26	12.2,
66.1,	56.3,	-49.7,	1.3,				
27	12.2,	58.8,	47.2,	-45.1,	-2.4,	28	12.2,
65.5,	56.7,	-49.1,	-6.4,				
29	12.2,	70.8,	64.5,	-51.6,	-9.9,	30	12.2,
73.9,	70.3,	-52.5,	-13.1,				
31	12.2,	74.8,	74.0,	-51.9,	-15.9,	32	12.2,
73.4,	75.4,	-49.6,	-18.2,				
33	12.2,	69.7,	74.5,	-45.9,	-19.9,	34	12.2,
64.0,	71.4,	-40.8,	-21.1,				
35	12.2,	56.3,	66.1,	-34.4,	-21.6,	36	12.2,
47.2,	58.8,	-27.0,	-21.5,				

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc          ***          09/12/24
*** AERMET - VERSION 16216 ***   ***
***          09:33:33

```

PAGE 14

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC

BUILDING DIMENSIONS \*\*\*

```

SOURCE ID: STCK09
IFV   BH   BW   BL   XADJ   YADJ   IFV   BH
BW    BL   XADJ  YADJ
  1  12.2,  55.6,  58.4, -26.6, -22.1,   2  12.2,
62.1,  63.9, -25.7, -21.4,
  3  12.2,  66.8,  67.5, -23.9, -19.9,   4  12.2,
76.3,  76.8, -80.2,  41.0,
  5  12.2,  77.4,  75.5, -86.1,  33.2,   6  12.2,
76.2,  72.0, -89.4,  24.3,
  7  12.2,  72.8,  66.3, -89.9,  14.8,   8  12.2,
67.0,  58.6, -87.8,   4.8,
  9  12.2,  59.3,  49.8, -83.0,  -5.4,  10  12.2,
66.7,  59.3, -85.9, -15.6,
 11  12.2,  72.3,  67.1, -86.2, -25.2,  12  12.2,
75.7,  72.8, -84.0, -34.0,
 13  12.2,  76.8,  76.3, -79.1, -41.8,  14  12.2,
68.5,  69.9, -19.6,  15.9,
 15  12.2,  65.9,  68.3, -21.8,  18.2,  16  12.2,
61.3,  64.6, -23.3,  20.1,
 17  12.2,  54.8,  58.9, -24.2,  21.2,  18  12.2,
47.2,  58.8, -109.7,  21.6,
 19  12.2,  56.7,  65.5, -115.8,   7.3,  20  12.2,
64.5,  70.8, -118.5,  -7.2,
 21  12.2,  70.3,  73.9, -117.5, -21.4,  22  12.2,
76.3,  76.8,   3.4, -41.0,
 23  12.2,  77.4,  75.5,  10.5, -33.2,  24  12.2,
76.2,  72.0,  17.3, -24.3,
 25  12.2,  72.8,  66.3,  23.6, -14.8,  26  12.2,
58.9,  54.8, -48.7,   5.3,
 27  12.2,  51.5,  47.4, -45.9,   1.5,  28  12.2,
58.4,  55.6, -49.9,  -2.5,
 29  12.2,  72.3,  67.1,  19.2,  25.2,  30  12.2,
75.7,  72.8,  11.2,  34.0,
 31  12.2,  76.8,  76.3,   2.8,  41.8,  32  12.2,
68.5,  69.9, -50.4, -15.9,
 33  12.2,  65.9,  68.3, -46.5, -18.2,  34  12.2,
61.3,  64.6, -41.3, -20.1,
 35  12.2,  54.8,  58.9, -34.8, -21.2,  36  12.2,
47.4,  51.5, -27.3, -22.2,

```

SOURCE ID: STCK10							
IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	55.6,	58.4,	-22.8,	-21.3,	2	12.2,
62.1,	63.9,	-22.0,	-19.9,				
3	12.2,	66.8,	67.5,	-20.6,	-17.9,	4	12.2,
76.3,	76.8,	-77.3,	43.6,				
5	12.2,	77.4,	75.5,	-83.7,	36.3,	6	12.2,
76.2,	72.0,	-87.5,	27.8,				
7	12.2,	72.8,	66.3,	-88.7,	18.5,	8	12.2,
67.0,	58.6,	-87.2,	8.6,				
9	12.2,	59.3,	49.8,	-83.1,	-1.5,	10	12.2,
66.7,	59.3,	-86.7,	-11.8,				
11	12.2,	72.3,	67.1,	-87.7,	-21.5,	12	12.2,
75.7,	72.8,	-86.0,	-30.7,				
13	12.2,	76.8,	76.3,	-81.8,	-38.9,	14	12.2,
68.5,	69.9,	-22.7,	18.3,				
15	12.2,	65.9,	68.3,	-25.2,	20.1,	16	12.2,
61.3,	64.6,	-27.1,	21.3,				
17	12.2,	54.8,	58.9,	-28.0,	21.8,	18	12.2,
47.2,	58.8,	-113.6,	21.4,				
19	12.2,	56.7,	65.5,	-119.7,	6.5,	20	12.2,
64.5,	70.8,	-122.1,	-8.7,				
21	12.2,	70.3,	73.9,	-120.8,	-23.5,	22	12.2,
76.3,	76.8,	0.5,	-43.6,				
23	12.2,	77.4,	75.5,	8.1,	-36.3,	24	12.2,
76.2,	72.0,	15.5,	-27.8,				
25	12.2,	72.8,	66.3,	22.4,	-18.5,	26	12.2,
58.9,	54.8,	-49.2,	1.4,				
27	12.2,	51.5,	47.4,	-45.7,	-2.4,	28	12.2,
58.4,	55.6,	-49.1,	-6.4,				
29	12.2,	72.3,	67.1,	20.6,	21.5,	30	12.2,
75.7,	72.8,	13.3,	30.7,				
31	12.2,	76.8,	76.3,	5.5,	38.9,	32	12.2,
68.5,	69.9,	-47.2,	-18.3,				
33	12.2,	65.9,	68.3,	-43.1,	-20.1,	34	12.2,
61.3,	64.6,	-37.6,	-21.3,				
35	12.2,	54.8,	58.9,	-30.9,	-21.8,	36	12.2,
47.4,	51.5,	-23.3,	-22.0,				

SOURCE ID: STCK11							
IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	59.3,	66.7,	-59.9,	-7.1,	2	12.2,
67.1,	72.3,	-61.2,	-11.6,				
3	12.2,	72.8,	75.7,	-60.5,	-15.7,	4	12.2,
76.3,	76.8,	-58.1,	-19.3,				
5	12.2,	77.4,	75.5,	-53.8,	-22.4,	6	12.2,
76.2,	72.0,	-48.0,	-24.8,				
7	12.2,	72.8,	66.3,	-40.6,	-26.4,	8	12.2,

67.0,	58.6,	-32.1,	-27.2,				
9	12.2,	59.3,	49.8,	-22.5,	-27.3,	10	12.2,
66.7,	59.3,	-22.6,	-26.6,				
11	12.2,	72.3,	67.1,	-22.0,	-25.0,	12	12.2,
75.7,	72.8,	-20.7,	-22.7,				
13	12.2,	76.8,	76.3,	-18.8,	-19.7,	14	12.2,
75.5,	77.4,	-16.3,	-16.1,				
15	12.2,	72.0,	76.2,	-13.3,	-12.0,	16	12.2,
66.3,	72.8,	-10.0,	-7.5,				
17	12.2,	58.6,	67.0,	-6.3,	-2.8,	18	12.2,
49.8,	59.3,	-2.4,	2.4,				
19	12.2,	59.3,	66.7,	-6.7,	7.1,	20	12.2,
67.1,	72.3,	-11.1,	11.6,				
21	12.2,	72.8,	75.7,	-15.1,	15.7,	22	12.2,
76.3,	76.8,	-18.7,	19.3,				
23	12.2,	77.4,	75.5,	-21.7,	22.4,	24	12.2,
76.2,	72.0,	-24.1,	24.8,				
25	12.2,	72.8,	66.3,	-25.7,	26.4,	26	12.2,
67.0,	58.6,	-26.5,	27.2,				
27	12.2,	59.3,	49.8,	-27.3,	27.3,	28	12.2,
66.7,	59.3,	-36.8,	26.6,				
29	12.2,	72.3,	67.1,	-45.1,	25.0,	30	12.2,
75.7,	72.8,	-52.1,	22.7,				
31	12.2,	76.8,	76.3,	-57.5,	19.7,	32	12.2,
75.5,	77.4,	-61.1,	16.1,				
33	12.2,	72.0,	76.2,	-62.9,	12.0,	34	12.2,
66.3,	72.8,	-62.8,	7.5,				
35	12.2,	58.6,	67.0,	-60.8,	2.8,	36	12.2,
49.8,	59.3,	-56.9,	-2.4,				

SOURCE ID: STCK12

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	59.3,	66.7,	-60.6,	-2.8,	2	12.2,
67.1,	72.3,	-62.6,	-7.5,				
3	12.2,	72.8,	75.7,	-62.6,	-11.9,	4	12.2,
76.3,	76.8,	-60.8,	-16.0,				
5	12.2,	77.4,	75.5,	-57.1,	-19.6,	6	12.2,
76.2,	72.0,	-51.6,	-22.6,				
7	12.2,	72.8,	66.3,	-44.6,	-24.9,	8	12.2,
67.0,	58.6,	-36.3,	-26.4,				
9	12.2,	59.3,	49.8,	-26.8,	-27.2,	10	12.2,
66.7,	59.3,	-26.8,	-27.3,				
11	12.2,	72.3,	67.1,	-26.0,	-26.4,	12	12.2,
75.7,	72.8,	-24.4,	-24.8,				
13	12.2,	76.8,	76.3,	-22.1,	-22.4,	14	12.2,
75.5,	77.4,	-19.1,	-19.3,				
15	12.2,	72.0,	76.2,	-15.5,	-15.6,	16	12.2,
66.3,	72.8,	-11.5,	-11.5,				
17	12.2,	58.6,	67.0,	-7.1,	-7.0,	18	12.2,
49.8,	59.3,	-2.5,	-1.9,				

19	12.2,	59.3,	66.7,	-6.1,	2.8,	20	12.2,
67.1,	72.3,	-9.7,	7.5,				
21	12.2,	72.8,	75.7,	-13.1,	11.9,	22	12.2,
76.3,	76.8,	-16.0,	16.0,				
23	12.2,	77.4,	75.5,	-18.5,	19.6,	24	12.2,
76.2,	72.0,	-20.4,	22.6,				
25	12.2,	72.8,	66.3,	-21.7,	24.9,	26	12.2,
67.0,	58.6,	-22.3,	26.4,				
27	12.2,	59.3,	49.8,	-23.0,	27.2,	28	12.2,
66.7,	59.3,	-32.5,	27.3,				
29	12.2,	72.3,	67.1,	-41.0,	26.4,	30	12.2,
75.7,	72.8,	-48.3,	24.8,				
31	12.2,	76.8,	76.3,	-54.1,	22.4,	32	12.2,
75.5,	77.4,	-58.3,	19.3,				
33	12.2,	72.0,	76.2,	-60.7,	15.6,	34	12.2,
66.3,	72.8,	-61.3,	11.5,				
35	12.2,	58.6,	67.0,	-59.9,	7.0,	36	12.2,
49.8,	59.3,	-56.8,	1.9,				

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 15

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC

BUILDING DIMENSIONS \*\*\*

```

SOURCE ID: STCK13
IFV   BH   BW   BL   XADJ   YADJ   IFV   BH
BW    BL   XADJ  YADJ
  1  12.2, 122.5, 77.6, -60.2, -35.8,  2  12.2,
127.4, 94.0, -62.0, -38.9,
  3  12.2, 128.3, 107.5, -61.8, -40.9,  4  12.2,
125.4, 117.8, -59.8, -41.6,
  5  12.2, 118.7, 124.5, -55.9, -41.1,  6  12.2,
108.3, 127.5, -50.4, -39.4,
  7  12.2, 94.7, 126.5, -43.3, -36.4,  8  12.2,
78.2, 121.7, -34.9, -32.3,
  9  12.2, 59.3, 114.0, -25.5, -27.3, 10  12.2,
77.6, 122.5, -25.5, -21.4,
 11  12.2, 94.0, 127.4, -24.8, -15.0, 12  12.2,
107.5, 128.3, -23.3, -8.1,
 13  12.2, 117.8, 125.4, -21.1, -0.9, 14  12.2,
75.5, 77.4, 23.0, 30.8,
 15  12.2, 72.0, 76.2, 17.3, 41.0, 16  12.2,
126.5, 94.7, -11.0, 19.9,
 17  12.2, 121.7, 78.2, -6.8, 25.9, 18  12.2,
114.0, 59.3, -2.4, 31.5,
 19  12.2, 122.5, 77.6, -17.3, 35.8, 20  12.2,
127.4, 94.0, -32.0, 38.9,
 21  12.2, 128.3, 107.5, -45.7, 40.9, 22  12.2,
125.4, 117.8, -58.0, 41.6,
 23  12.2, 118.7, 124.5, -68.6, 41.1, 24  12.2,
108.3, 127.5, -77.1, 39.4,
 25  12.2, 94.7, 126.5, -83.2, 36.4, 26  12.2,
67.0, 58.6, -86.8, 37.9,
 27  12.2, 59.3, 49.8, -88.5, 27.3, 28  12.2,
66.7, 59.3, -97.0, 16.0,
 29  12.2, 72.3, 67.1, -102.6, 4.1, 30  12.2,
75.7, 72.8, -105.1, -7.9,
 31  12.2, 76.8, 76.3, -104.3, -19.7, 32  12.2,
75.5, 77.4, -100.5, -30.8,
 33  12.2, 72.0, 76.2, -93.5, -41.0, 34  12.2,
126.5, 94.7, -83.7, -19.9,
 35  12.2, 121.7, 78.2, -71.4, -25.9, 36  12.2,
114.0, 59.3, -56.9, -31.5,

```

SOURCE ID: STCK14							
IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	122.5,	77.6,	-61.0,	-31.4,	2	12.2,
127.4,	94.0,	-63.5,	-34.7,				
3	12.2,	128.3,	107.5,	-64.1,	-37.0,	4	12.2,
125.4,	117.8,	-62.7,	-38.2,				
5	12.2,	118.7,	124.5,	-59.4,	-38.3,	6	12.2,
108.3,	127.5,	-54.3,	-37.1,				
7	12.2,	94.7,	126.5,	-47.5,	-34.9,	8	12.2,
67.0,	58.6,	23.8,	-37.1,				
9	12.2,	59.3,	114.0,	-30.0,	-27.3,	10	12.2,
77.6,	122.5,	-29.9,	-22.2,				
11	12.2,	94.0,	127.4,	-29.0,	-16.5,	12	12.2,
107.5,	128.3,	-27.1,	-10.3,				
13	12.2,	117.8,	125.4,	-24.5,	-3.8,	14	12.2,
75.5,	77.4,	20.2,	27.4,				
15	12.2,	72.0,	76.2,	15.1,	37.2,	16	12.2,
126.5,	94.7,	-12.5,	15.7,				
17	12.2,	121.7,	78.2,	-7.5,	21.5,	18	12.2,
114.0,	59.3,	-2.4,	27.0,				
19	12.2,	122.5,	77.6,	-16.6,	31.4,	20	12.2,
127.4,	94.0,	-30.5,	34.7,				
21	12.2,	128.3,	107.5,	-43.5,	37.0,	22	12.2,
125.4,	117.8,	-55.1,	38.2,				
23	12.2,	118.7,	124.5,	-65.1,	38.3,	24	12.2,
108.3,	127.5,	-73.2,	37.1,				
25	12.2,	94.7,	126.5,	-79.0,	34.9,	26	12.2,
67.0,	58.6,	-82.4,	37.1,				
27	12.2,	59.3,	49.8,	-84.0,	27.3,	28	12.2,
66.7,	59.3,	-92.6,	16.8,				
29	12.2,	72.3,	67.1,	-98.4,	5.7,	30	12.2,
75.7,	72.8,	-101.2,	-5.6,				
31	12.2,	76.8,	76.3,	-100.9,	-16.8,	32	12.2,
75.5,	77.4,	-97.6,	-27.4,				
33	12.2,	72.0,	76.2,	-91.3,	-37.2,	34	12.2,
126.5,	94.7,	-82.2,	-15.7,				
35	12.2,	121.7,	78.2,	-70.6,	-21.5,	36	12.2,
114.0,	59.3,	-56.9,	-27.0,				

SOURCE ID: STCK15							
IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	68.5,	67.8,	-60.8,	-7.0,	2	12.2,
75.7,	75.0,	-62.9,	-11.5,				
3	12.2,	80.7,	80.0,	-63.1,	-15.7,	4	12.2,
83.2,	82.6,	-61.3,	-19.3,				
5	12.2,	101.7,	95.5,	-117.5,	46.5,	6	12.2,
104.3,	86.9,	-120.2,	33.7,				
7	12.2,	103.8,	75.7,	-119.2,	19.9,	8	12.2,

100.1,	62.2,	-114.6,	5.5,				
9	12.2,	93.5,	47.1,	-106.7,	-9.2,	10	12.2,
99.5,	62.5,	-111.6,	-23.8,				
11	12.2,	103.1,	76.1,	-113.1,	-37.4,	12	12.2,
103.7,	87.4,	-111.2,	-49.8,				
13	12.2,	82.6,	83.2,	-22.3,	-20.0,	14	12.2,
124.5,	118.7,	23.9,	56.9,				
15	12.2,	80.2,	80.6,	-15.5,	-12.2,	16	12.2,
75.3,	75.6,	-11.4,	-7.8,				
17	12.2,	68.1,	68.3,	-6.9,	-3.0,	18	12.2,
59.5,	59.1,	-2.2,	2.2,				
19	12.2,	68.5,	67.8,	-7.0,	7.0,	20	12.2,
75.7,	75.0,	-12.2,	11.5,				
21	12.2,	80.7,	80.0,	-17.0,	15.7,	22	12.2,
83.2,	82.6,	-21.3,	19.3,				
23	12.2,	101.7,	95.5,	22.1,	-46.5,	24	12.2,
80.6,	80.2,	-27.8,	24.8,				
25	12.2,	75.6,	75.3,	-29.9,	26.4,	26	12.2,
78.2,	121.7,	-151.6,	43.5,				
27	12.2,	59.3,	114.0,	-154.3,	27.0,	28	12.2,
77.6,	122.5,	-161.8,	9.8,				
29	12.2,	94.0,	127.4,	-164.4,	-7.7,	30	12.2,
103.7,	87.4,	23.8,	49.8,				
31	12.2,	117.8,	125.4,	-154.6,	-41.6,	32	12.2,
124.5,	118.7,	-142.6,	-56.9,				
33	12.2,	80.2,	80.6,	-65.1,	12.2,	34	12.2,
75.3,	75.6,	-64.2,	7.8,				
35	12.2,	68.1,	68.3,	-61.4,	3.0,	36	12.2,
59.5,	59.1,	-56.9,	-2.2,				

SOURCE ID: STCK16

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	68.5,	67.8,	-61.6,	-2.7,	2	12.2,
75.7,	75.0,	-64.4,	-7.4,				
3	12.2,	80.7,	80.0,	-65.3,	-11.8,	4	12.2,
83.2,	82.6,	-64.2,	-15.9,				
5	12.2,	83.1,	82.6,	-61.1,	-19.5,	6	12.2,
80.6,	80.2,	-56.2,	-22.6,				
7	12.2,	75.6,	75.3,	-49.5,	-24.9,	8	12.2,
68.3,	68.1,	-41.4,	-26.5,				
9	12.2,	59.1,	59.5,	-32.0,	-27.4,	10	12.2,
67.8,	68.5,	-31.6,	-27.7,				
11	12.2,	75.0,	75.7,	-30.5,	-26.9,	12	12.2,
80.0,	80.7,	-28.5,	-25.3,				
13	12.2,	82.6,	83.2,	-25.7,	-22.9,	14	12.2,
124.5,	118.7,	21.1,	53.5,				
15	12.2,	127.5,	108.3,	15.7,	66.6,	16	12.2,
75.3,	75.6,	-12.9,	-11.9,				
17	12.2,	68.1,	68.3,	-7.6,	-7.4,	18	12.2,
59.5,	59.1,	-2.2,	-2.3,				

19	12.2,	68.5,	67.8,	-6.2,	2.7,	20	12.2,
75.7,	75.0,	-10.6,	7.4,				
21	12.2,	80.7,	80.0,	-14.8,	11.8,	22	12.2,
83.2,	82.6,	-18.4,	15.9,				
23	12.2,	83.1,	82.6,	-21.5,	19.5,	24	12.2,
80.6,	80.2,	-24.0,	22.6,				
25	12.2,	75.6,	75.3,	-25.7,	24.9,	26	12.2,
78.2,	121.7,	-147.2,	42.8,				
27	12.2,	59.3,	114.0,	-149.8,	27.0,	28	12.2,
77.6,	122.5,	-157.4,	10.6,				
29	12.2,	94.0,	127.4,	-160.2,	-6.2,	30	12.2,
107.5,	128.3,	-158.1,	-22.8,				
31	12.2,	117.8,	125.4,	-151.2,	-38.7,	32	12.2,
124.5,	118.7,	-139.7,	-53.5,				
33	12.2,	127.5,	108.3,	-124.0,	-66.6,	34	12.2,
75.3,	75.6,	-62.7,	11.9,				
35	12.2,	68.1,	68.3,	-60.6,	7.4,	36	12.2,
59.5,	59.1,	-56.9,	2.3,				

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc          ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 16

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC

BUILDING DIMENSIONS \*\*\*

```

SOURCE ID: STCK17
IFV   BH   BW   BL   XADJ  YADJ  IFV   BH
BW    BL   XADJ  YADJ
  1  12.2,  53.7,  49.5, -30.4,  21.2,   2  12.2,
58.7,  55.5, -37.0,  20.0,
  3  12.2,  61.9,  59.8, -42.5,  18.1,   4  12.2,
63.2,  62.3, -46.6,  15.7,
  5  12.2,  62.7,  62.8, -49.4,  12.8,   6  12.2,
60.2,  61.5, -50.6,   9.5,
  7  12.2,  55.9,  58.3, -50.3,   6.0,   8  12.2,
49.9,  53.3, -48.5,   2.2,
  9  12.2,  42.5,  47.0, -45.4,  -1.7,  10  12.2,
49.5,  53.7, -48.1,  -5.7,
 11  12.2,  55.5,  58.7, -49.3,  -9.3,  12  12.2,
59.8,  61.9, -49.1, -12.6,
 13  12.2,  62.3,  63.2, -47.3, -15.5,  14  12.2,
62.8,  62.7, -44.2, -18.0,
 15  12.2,  61.5,  60.2, -39.6, -19.9,  16  12.2,
58.3,  55.9, -33.9, -21.2,
 17  12.2,  53.3,  49.9, -27.2, -21.9,  18  12.2,
47.0,  42.5, -19.6, -21.9,
 19  12.2,  53.7,  49.5, -19.1, -21.2,  20  12.2,
58.7,  55.5, -18.5, -20.0,
 21  12.2,  61.9,  59.8, -17.3, -18.1,  22  12.2,
63.2,  62.3, -15.6, -15.7,
 23  12.2,  62.7,  62.8, -13.5, -12.8,  24  12.2,
60.2,  61.5, -10.9,  -9.5,
 25  12.2,  55.9,  58.3,  -8.0,  -6.0,  26  12.2,
49.9,  53.3,  -4.8,  -2.2,
 27  12.2,  42.5,  47.0,  -1.7,   1.7,  28  12.2,
49.5,  53.7,  -5.6,   5.7,
 29  12.2,  55.5,  58.7,  -9.4,   9.3,  30  12.2,
59.8,  61.9, -12.8,  12.6,
 31  12.2,  62.3,  63.2, -15.9,  15.5,  32  12.2,
62.8,  62.7, -18.5,  18.0,
 33  12.2,  61.5,  60.2, -20.6,  19.9,  34  12.2,
58.3,  55.9, -22.0,  21.2,
 35  12.2,  53.3,  49.9, -22.7,  21.9,  36  12.2,
47.0,  42.5, -22.9,  21.9,

```

SOURCE ID: STCK18							
IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	53.7,	49.5,	-26.7,	21.9,	2	12.2,
58.7,	55.5,	-33.4,	21.2,				
3	12.2,	61.9,	59.8,	-39.1,	20.0,	4	12.2,
63.2,	62.3,	-43.7,	18.1,				
5	12.2,	62.7,	62.8,	-46.9,	15.7,	6	12.2,
60.2,	61.5,	-48.7,	12.8,				
7	12.2,	55.9,	58.3,	-49.0,	9.5,	8	12.2,
49.9,	53.3,	-47.8,	6.0,				
9	12.2,	42.5,	47.0,	-45.3,	2.1,	10	12.2,
49.5,	53.7,	-48.7,	-1.9,				
11	12.2,	55.5,	58.7,	-50.6,	-5.6,	12	12.2,
59.8,	61.9,	-50.9,	-9.2,				
13	12.2,	62.3,	63.2,	-49.8,	-12.6,	14	12.2,
62.8,	62.7,	-47.1,	-15.5,				
15	12.2,	61.5,	60.2,	-42.9,	-17.9,	16	12.2,
58.3,	55.9,	-37.5,	-19.8,				
17	12.2,	53.3,	49.9,	-30.9,	-21.1,	18	12.2,
47.0,	42.5,	-23.4,	-21.8,				
19	12.2,	53.7,	49.5,	-22.9,	-21.9,	20	12.2,
58.7,	55.5,	-22.1,	-21.2,				
21	12.2,	61.9,	59.8,	-20.7,	-20.0,	22	12.2,
63.2,	62.3,	-18.6,	-18.1,				
23	12.2,	62.7,	62.8,	-16.0,	-15.7,	24	12.2,
60.2,	61.5,	-12.8,	-12.8,				
25	12.2,	55.9,	58.3,	-9.3,	-9.5,	26	12.2,
49.9,	53.3,	-5.5,	-6.0,				
27	12.2,	42.5,	47.0,	-1.7,	-2.1,	28	12.2,
49.5,	53.7,	-5.0,	1.9,				
29	12.2,	55.5,	58.7,	-8.1,	5.6,	30	12.2,
59.8,	61.9,	-11.0,	9.2,				
31	12.2,	62.3,	63.2,	-13.5,	12.6,	32	12.2,
62.8,	62.7,	-15.6,	15.5,				
33	12.2,	61.5,	60.2,	-17.3,	17.9,	34	12.2,
58.3,	55.9,	-18.4,	19.8,				
35	12.2,	53.3,	49.9,	-19.0,	21.1,	36	12.2,
47.0,	42.5,	-19.1,	21.8,				

SOURCE ID: STCK19							
IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	53.7,	49.5,	-80.4,	12.7,	2	12.2,
58.7,	55.5,	-84.8,	2.8,				
3	12.2,	61.9,	59.8,	-86.5,	-7.0,	4	12.2,
63.2,	62.3,	-85.6,	-16.7,				
5	12.2,	62.7,	62.8,	-82.2,	-25.9,	6	12.2,
60.2,	61.5,	-76.2,	-34.3,				
7	12.2,	103.8,	75.7,	-67.9,	-17.7,	8	12.2,

100.1,	62.2,	-57.5,	-22.6,				
9	12.2,	93.5,	47.1,	-45.6,	-26.9,	10	12.2,
99.5,	62.5,	-48.3,	-30.7,				
11	12.2,	103.1,	76.1,	-49.6,	-33.2,	12	12.2,
103.7,	87.4,	-49.4,	-34.7,				
13	12.2,	101.1,	96.0,	-47.7,	-35.1,	14	12.2,
95.5,	101.7,	-44.5,	-34.4,				
15	12.2,	86.9,	104.3,	-40.0,	-32.7,	16	12.2,
75.7,	103.8,	-34.2,	-30.0,				
17	12.2,	53.3,	49.9,	22.8,	-30.9,	18	12.2,
47.1,	93.5,	-19.8,	-22.1,				
19	12.2,	62.5,	99.5,	-19.0,	-17.1,	20	12.2,
76.1,	103.1,	-18.4,	-11.6,				
21	12.2,	87.4,	103.7,	-17.2,	-5.7,	22	12.2,
63.2,	62.3,	23.4,	16.7,				
23	12.2,	62.7,	62.8,	19.3,	25.9,	24	12.2,
60.2,	61.5,	14.7,	34.3,				
25	12.2,	103.8,	75.7,	-7.8,	17.7,	26	12.2,
100.1,	62.2,	-4.6,	22.6,				
27	12.2,	93.5,	47.1,	-1.5,	26.9,	28	12.2,
99.5,	62.5,	-14.2,	30.7,				
29	12.2,	103.1,	76.1,	-26.5,	33.2,	30	12.2,
103.7,	87.4,	-38.0,	34.7,				
31	12.2,	101.1,	96.0,	-48.3,	35.1,	32	12.2,
95.5,	101.7,	-57.2,	34.4,				
33	12.2,	86.9,	104.3,	-64.4,	32.7,	34	12.2,
75.7,	103.8,	-69.6,	30.0,				
35	12.2,	53.3,	49.9,	-72.6,	30.9,	36	12.2,
47.0,	42.5,	-73.7,	22.1,				

SOURCE ID: STCK20

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	53.7,	49.5,	-76.5,	13.4,	2	12.2,
58.7,	55.5,	-81.0,	4.3,				
3	12.2,	61.9,	59.8,	-83.0,	-5.0,	4	12.2,
63.2,	62.3,	-82.6,	-14.1,				
5	12.2,	62.7,	62.8,	-79.6,	-22.8,	6	12.2,
60.2,	61.5,	-74.2,	-30.7,				
7	12.2,	103.8,	75.7,	-66.6,	-13.9,	8	12.2,
100.1,	62.2,	-56.9,	-18.6,				
9	12.2,	93.5,	47.1,	-45.6,	-22.9,	10	12.2,
99.5,	62.5,	-49.1,	-26.7,				
11	12.2,	103.1,	76.1,	-51.1,	-29.4,	12	12.2,
103.7,	87.4,	-51.5,	-31.2,				
13	12.2,	101.1,	96.0,	-50.3,	-32.0,	14	12.2,
95.5,	101.7,	-47.6,	-31.9,				
15	12.2,	86.9,	104.3,	-43.5,	-30.8,	16	12.2,
75.7,	103.8,	-38.0,	-28.7,				
17	12.2,	53.3,	49.9,	18.8,	-30.2,	18	12.2,
47.1,	93.5,	-23.9,	-22.1,				

19	12.2,	62.5,	99.5,	-23.0,	-17.9,	20	12.2,
76.1,	103.1,	-22.2,	-13.0,				
21	12.2,	61.9,	59.8,	23.2,	5.0,	22	12.2,
63.2,	62.3,	20.3,	14.1,				
23	12.2,	62.7,	62.8,	16.8,	22.8,	24	12.2,
60.2,	61.5,	12.7,	30.7,				
25	12.2,	103.8,	75.7,	-9.1,	13.9,	26	12.2,
100.1,	62.2,	-5.3,	18.6,				
27	12.2,	93.5,	47.1,	-1.4,	22.9,	28	12.2,
99.5,	62.5,	-13.4,	26.7,				
29	12.2,	103.1,	76.1,	-25.0,	29.4,	30	12.2,
103.7,	87.4,	-35.9,	31.2,				
31	12.2,	101.1,	96.0,	-45.7,	32.0,	32	12.2,
95.5,	101.7,	-54.1,	31.9,				
33	12.2,	86.9,	104.3,	-60.8,	30.8,	34	12.2,
75.7,	103.8,	-65.8,	28.7,				
35	12.2,	53.3,	49.9,	-68.6,	30.2,	36	12.2,
47.0,	42.5,	-69.6,	22.1,				

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 17

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DIRECTION SPECIFIC

BUILDING DIMENSIONS \*\*\*

```

SOURCE ID: STCK21
IFV   BH   BW   BL   XADJ   YADJ   IFV   BH
BW    BL   XADJ  YADJ
  1   12.2, 62.5, 99.5, -130.2, 8.5, 2   12.2,
76.1, 103.1, -132.3, -5.6,
  3   12.2, 87.4, 103.7, -130.3, -19.4, 4   12.2,
96.0, 101.1, -124.4, -32.7,
  5   12.2, 101.7, 95.5, -114.7, -45.0, 6   12.2,
104.3, 86.9, -101.6, -55.9,
  7   12.2, 151.2, 92.8, -85.3, -41.4, 8   12.2,
149.8, 70.8, -66.5, -47.5,
  9   12.2, 143.9, 47.2, -45.9, -52.2, 10  12.2,
149.2, 71.3, -48.5, -55.6,
 11   12.2, 150.6, 93.4, -49.7, -57.0, 12  12.2,
147.4, 112.6, -49.5, -56.6,
 13   12.2, 139.7, 128.4, -47.7, -54.6, 14  12.2,
127.8, 140.4, -44.5, -50.8,
 15   12.2, 112.0, 148.0, -40.0, -45.5, 16  12.2,
92.8, 151.2, -34.2, -38.9,
 17   12.2, 62.2, 100.1, 22.3, -35.4, 18  12.2,
47.2, 143.9, -19.7, -22.3,
 19   12.2, 71.3, 149.2, -19.0, -12.8, 20  12.2,
93.4, 150.6, -18.3, -3.1,
 21   12.2, 112.6, 147.4, -17.1, 6.8, 22  12.2,
96.0, 101.1, 23.3, 32.7,
 23   12.2, 101.7, 95.5, 19.3, 45.0, 24  12.2,
104.3, 86.9, 14.7, 55.9,
 25   12.2, 151.2, 92.8, -7.5, 41.4, 26  12.2,
149.8, 70.8, -4.4, 47.5,
 27   12.2, 143.9, 47.2, -1.3, 52.2, 28  12.2,
149.2, 71.3, -22.8, 55.6,
 29   12.2, 150.6, 93.4, -43.6, 57.0, 30  12.2,
147.4, 112.6, -63.1, 56.6,
 31   12.2, 139.7, 128.4, -80.7, 54.6, 32  12.2,
127.8, 140.4, -95.8, 50.8,
 33   12.2, 112.0, 148.0, -108.1, 45.5, 34  12.2,
92.8, 151.2, -117.0, 38.9,
 35   12.2, 62.2, 100.1, -122.4, 35.4, 36  12.2,
47.1, 93.5, -124.2, 22.2,

```

## SOURCE ID: STCK22

IFV	BH	BW	BL	XADJ	YADJ	IFV	BH
BW	BL	XADJ	YADJ				
1	12.2,	62.5,	99.5,	-126.2,	9.1,	2	12.2,
76.1,	103.1,	-128.5,	-4.2,				
3	12.2,	87.4,	103.7,	-126.8,	-17.4,	4	12.2,
96.0,	101.1,	-121.3,	-30.1,				
5	12.2,	101.7,	95.5,	-112.1,	-41.9,	6	12.2,
104.3,	86.9,	-99.5,	-52.4,				
7	12.2,	151.2,	92.8,	-83.9,	-37.6,	8	12.2,
149.8,	70.8,	-65.7,	-43.5,				
9	12.2,	143.9,	47.2,	-45.8,	-48.2,	10	12.2,
149.2,	71.3,	-49.1,	-51.6,				
11	12.2,	150.6,	93.4,	-51.1,	-53.2,	12	12.2,
147.4,	112.6,	-51.5,	-53.1,				
13	12.2,	139.7,	128.4,	-50.3,	-51.4,	14	12.2,
127.8,	140.4,	-47.6,	-48.2,				
15	12.2,	112.0,	148.0,	-43.4,	-43.5,	16	12.2,
92.8,	151.2,	-38.0,	-37.5,				
17	12.2,	62.2,	100.1,	18.3,	-34.6,	18	12.2,
47.2,	143.9,	-23.8,	-22.2,				
19	12.2,	71.3,	149.2,	-23.0,	-13.5,	20	12.2,
93.4,	150.6,	-22.1,	-4.4,				
21	12.2,	87.4,	103.7,	23.1,	17.4,	22	12.2,
96.0,	101.1,	20.2,	30.1,				
23	12.2,	101.7,	95.5,	16.7,	41.9,	24	12.2,
104.3,	86.9,	12.6,	52.4,				
25	12.2,	151.2,	92.8,	-8.9,	37.6,	26	12.2,
149.8,	70.8,	-5.1,	43.5,				
27	12.2,	143.9,	47.2,	-1.4,	48.2,	28	12.2,
149.2,	71.3,	-22.1,	51.6,				
29	12.2,	150.6,	93.4,	-42.3,	53.2,	30	12.2,
147.4,	112.6,	-61.1,	53.1,				
31	12.2,	139.7,	128.4,	-78.1,	51.4,	32	12.2,
127.8,	140.4,	-92.8,	48.2,				
33	12.2,	112.0,	148.0,	-104.6,	43.5,	34	12.2,
92.8,	151.2,	-113.2,	37.5,				
35	12.2,	62.2,	100.1,	-118.4,	34.6,	36	12.2,
47.1,	93.5,	-120.2,	22.2,				

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 18

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH  
VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = PAREA01 ; SOURCE TYPE = AREAPOLY :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = PAREA02 ; SOURCE TYPE = AREAPOLY :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = PAREA03 ; SOURCE TYPE = AREAPOLY :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = PAREA04 ; SOURCE TYPE = AREAPOLY :
1 .00000E+00 2 .00000E+00 3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

SOURCE ID = PAREA05 ; SOURCE TYPE = AREAPOLY :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***      *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc              ***      09/12/24
*** AERMET - VERSION 16216 ***      ***
***      09:33:33

```

PAGE 19

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = PAREA06      ; SOURCE TYPE = AREAPOLY :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .00000E+00      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .00000E+00     21 .00000E+00
22 .00000E+00     23 .00000E+00     24 .00000E+00

```

```

SOURCE ID = PAREA07      ; SOURCE TYPE = AREAPOLY :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .00000E+00      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .00000E+00     21 .00000E+00
22 .00000E+00     23 .00000E+00     24 .00000E+00

```

```

SOURCE ID = PAREA08      ; SOURCE TYPE = AREAPOLY :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .00000E+00      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .00000E+00     21 .00000E+00
22 .00000E+00     23 .00000E+00     24 .00000E+00

```

```

SOURCE ID = PAREA09      ; SOURCE TYPE = AREAPOLY :
  1 .00000E+00      2 .00000E+00      3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

SOURCE ID = A0000001 ; SOURCE TYPE = AREA :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 20

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---

```

SOURCE ID = A0000002 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .00000E+00      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .00000E+00     21 .00000E+00
22 .00000E+00     23 .00000E+00     24 .00000E+00

```

```

SOURCE ID = A0000003 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .00000E+00      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .00000E+00     21 .00000E+00
22 .00000E+00     23 .00000E+00     24 .00000E+00

```

```

SOURCE ID = A0000004 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .00000E+00      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .00000E+00     21 .00000E+00
22 .00000E+00     23 .00000E+00     24 .00000E+00

```

```

SOURCE ID = A0000005 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

SOURCE ID = A0000006 ; SOURCE TYPE = AREA :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***      *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc              ***      09/12/24
*** AERMET - VERSION 16216 ***      ***
***      09:33:33

```

PAGE 21

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.00000E+00	2	.00000E+00	3	.00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
7	.00000E+00	8	.10000E+01	9	.10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
13	.10000E+01	14	.10000E+01	15	.10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
19	.10000E+01	20	.00000E+00	21	.00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

```

SOURCE ID = A0000007 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000008 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000009 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000010 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

SOURCE ID = A0000011 ; SOURCE TYPE = AREA :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***      *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc              ***      09/12/24
*** AERMET - VERSION 16216 ***      ***
***      09:33:33

```

PAGE 22

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = A0000012 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000013 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000014 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000015 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

```

SOURCE ID = A0000016      ; SOURCE TYPE = AREA      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .00000E+00      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
  13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
  19 .10000E+01     20 .00000E+00     21 .00000E+00
22 .00000E+00     23 .00000E+00     24 .00000E+00

```

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 23

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---

```

SOURCE ID = A0000017 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000018 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000019 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000020 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

```

SOURCE ID = A0000021      ; SOURCE TYPE = AREA      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .00000E+00      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
  13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
  19 .10000E+01     20 .00000E+00     21 .00000E+00
22 .00000E+00     23 .00000E+00     24 .00000E+00

```

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 24

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = A0000022 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000023 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000024 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000025 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

SOURCE ID = A0000026 ; SOURCE TYPE = AREA :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 25

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---

```

SOURCE ID = A0000027 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000028 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000029 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000030 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

SOURCE ID = A0000031 ; SOURCE TYPE = AREA :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 26

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = A0000032 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000033 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000034 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000035 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

SOURCE ID = A0000036 ; SOURCE TYPE = AREA :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***      *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc                ***      09/12/24
*** AERMET - VERSION 16216 ***      ***
***      09:33:33

```

PAGE 27

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = A0000037 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000038 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000039 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000040 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

SOURCE ID = A0000041 ; SOURCE TYPE = AREA :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 28

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = A0000042 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000043 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000044 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .00000E+00 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .00000E+00 21 .00000E+00
22 .00000E+00 23 .00000E+00 24 .00000E+00

```

```

SOURCE ID = A0000045 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

SOURCE ID = A0000046 ; SOURCE TYPE = AREA :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 29

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = A0000047 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .00000E+00      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .00000E+00     21 .00000E+00
22 .00000E+00     23 .00000E+00     24 .00000E+00

```

```

SOURCE ID = A0000048 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .00000E+00      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .00000E+00     21 .00000E+00
22 .00000E+00     23 .00000E+00     24 .00000E+00

```

```

SOURCE ID = A0000049 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .00000E+00      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .00000E+00     21 .00000E+00
22 .00000E+00     23 .00000E+00     24 .00000E+00

```

```

SOURCE ID = A0000050 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .00000E+00		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .00000E+00		21 .00000E+00
22	.00000E+00	23	.00000E+00	24	.00000E+00

```

SOURCE ID = STCK01      ; SOURCE TYPE = POINT      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
  13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
  19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc              ***      09/12/24
*** AERMET - VERSION 16216 ***      ***
***      09:33:33

```

PAGE 30

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---

```

SOURCE ID = STCK02      ; SOURCE TYPE = POINT      :
  1 .00000E+00          2 .00000E+00          3 .00000E+00
4 .00000E+00           5 .00000E+00          6 .00000E+00
  7 .10000E+01          8 .10000E+01          9 .10000E+01
10 .10000E+01         11 .10000E+01         12 .10000E+01
 13 .10000E+01         14 .10000E+01         15 .10000E+01
16 .10000E+01         17 .10000E+01         18 .10000E+01
 19 .10000E+01         20 .10000E+01         21 .10000E+01
22 .10000E+01         23 .10000E+01         24 .00000E+00

```

```

SOURCE ID = STCK03      ; SOURCE TYPE = POINT      :
  1 .00000E+00          2 .00000E+00          3 .00000E+00
4 .00000E+00           5 .00000E+00          6 .00000E+00
  7 .10000E+01          8 .10000E+01          9 .10000E+01
10 .10000E+01         11 .10000E+01         12 .10000E+01
 13 .10000E+01         14 .10000E+01         15 .10000E+01
16 .10000E+01         17 .10000E+01         18 .10000E+01
 19 .10000E+01         20 .10000E+01         21 .10000E+01
22 .10000E+01         23 .10000E+01         24 .00000E+00

```

```

SOURCE ID = STCK04      ; SOURCE TYPE = POINT      :
  1 .00000E+00          2 .00000E+00          3 .00000E+00
4 .00000E+00           5 .00000E+00          6 .00000E+00
  7 .10000E+01          8 .10000E+01          9 .10000E+01
10 .10000E+01         11 .10000E+01         12 .10000E+01
 13 .10000E+01         14 .10000E+01         15 .10000E+01
16 .10000E+01         17 .10000E+01         18 .10000E+01
 19 .10000E+01         20 .10000E+01         21 .10000E+01
22 .10000E+01         23 .10000E+01         24 .00000E+00

```

```

SOURCE ID = STCK05      ; SOURCE TYPE = POINT      :
  1 .00000E+00          2 .00000E+00          3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

SOURCE ID = STCK06 ; SOURCE TYPE = POINT :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 31

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = STCK07 ; SOURCE TYPE = POINT :
  1 .00000E+00    2 .00000E+00    3 .00000E+00
4  .00000E+00    5 .00000E+00    6 .00000E+00
  7 .10000E+01    8 .10000E+01    9 .10000E+01
10 .10000E+01   11 .10000E+01   12 .10000E+01
 13 .10000E+01   14 .10000E+01   15 .10000E+01
16 .10000E+01   17 .10000E+01   18 .10000E+01
 19 .10000E+01   20 .10000E+01   21 .10000E+01
22 .10000E+01   23 .10000E+01   24 .00000E+00

```

```

SOURCE ID = STCK08 ; SOURCE TYPE = POINT :
  1 .00000E+00    2 .00000E+00    3 .00000E+00
4  .00000E+00    5 .00000E+00    6 .00000E+00
  7 .10000E+01    8 .10000E+01    9 .10000E+01
10 .10000E+01   11 .10000E+01   12 .10000E+01
 13 .10000E+01   14 .10000E+01   15 .10000E+01
16 .10000E+01   17 .10000E+01   18 .10000E+01
 19 .10000E+01   20 .10000E+01   21 .10000E+01
22 .10000E+01   23 .10000E+01   24 .00000E+00

```

```

SOURCE ID = STCK09 ; SOURCE TYPE = POINT :
  1 .00000E+00    2 .00000E+00    3 .00000E+00
4  .00000E+00    5 .00000E+00    6 .00000E+00
  7 .10000E+01    8 .10000E+01    9 .10000E+01
10 .10000E+01   11 .10000E+01   12 .10000E+01
 13 .10000E+01   14 .10000E+01   15 .10000E+01
16 .10000E+01   17 .10000E+01   18 .10000E+01
 19 .10000E+01   20 .10000E+01   21 .10000E+01
22 .10000E+01   23 .10000E+01   24 .00000E+00

```

```

SOURCE ID = STCK10 ; SOURCE TYPE = POINT :
  1 .00000E+00    2 .00000E+00    3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

SOURCE ID = STCK11      ; SOURCE TYPE = POINT      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
  13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
  19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 32

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = STCK12 ; SOURCE TYPE = POINT :
  1 .00000E+00    2 .00000E+00    3 .00000E+00
4  .00000E+00    5 .00000E+00    6 .00000E+00
  7 .10000E+01    8 .10000E+01    9 .10000E+01
10 .10000E+01   11 .10000E+01   12 .10000E+01
 13 .10000E+01   14 .10000E+01   15 .10000E+01
16 .10000E+01   17 .10000E+01   18 .10000E+01
 19 .10000E+01   20 .10000E+01   21 .10000E+01
22 .10000E+01   23 .10000E+01   24 .00000E+00

```

```

SOURCE ID = STCK13 ; SOURCE TYPE = POINT :
  1 .00000E+00    2 .00000E+00    3 .00000E+00
4  .00000E+00    5 .00000E+00    6 .00000E+00
  7 .10000E+01    8 .10000E+01    9 .10000E+01
10 .10000E+01   11 .10000E+01   12 .10000E+01
 13 .10000E+01   14 .10000E+01   15 .10000E+01
16 .10000E+01   17 .10000E+01   18 .10000E+01
 19 .10000E+01   20 .10000E+01   21 .10000E+01
22 .10000E+01   23 .10000E+01   24 .00000E+00

```

```

SOURCE ID = STCK14 ; SOURCE TYPE = POINT :
  1 .00000E+00    2 .00000E+00    3 .00000E+00
4  .00000E+00    5 .00000E+00    6 .00000E+00
  7 .10000E+01    8 .10000E+01    9 .10000E+01
10 .10000E+01   11 .10000E+01   12 .10000E+01
 13 .10000E+01   14 .10000E+01   15 .10000E+01
16 .10000E+01   17 .10000E+01   18 .10000E+01
 19 .10000E+01   20 .10000E+01   21 .10000E+01
22 .10000E+01   23 .10000E+01   24 .00000E+00

```

```

SOURCE ID = STCK15 ; SOURCE TYPE = POINT :
  1 .00000E+00    2 .00000E+00    3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

SOURCE ID = STCK16 ; SOURCE TYPE = POINT :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***      *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc              ***      09/12/24
*** AERMET - VERSION 16216 ***      ***
***      09:33:33

```

PAGE 33

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---

```

SOURCE ID = STCK17      ; SOURCE TYPE = POINT      :
  1  .00000E+00      2  .00000E+00      3  .00000E+00
4  .00000E+00      5  .00000E+00      6  .00000E+00
  7  .10000E+01      8  .10000E+01      9  .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = STCK18      ; SOURCE TYPE = POINT      :
  1  .00000E+00      2  .00000E+00      3  .00000E+00
4  .00000E+00      5  .00000E+00      6  .00000E+00
  7  .10000E+01      8  .10000E+01      9  .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = STCK19      ; SOURCE TYPE = POINT      :
  1  .00000E+00      2  .00000E+00      3  .00000E+00
4  .00000E+00      5  .00000E+00      6  .00000E+00
  7  .10000E+01      8  .10000E+01      9  .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = STCK20      ; SOURCE TYPE = POINT      :
  1  .00000E+00      2  .00000E+00      3  .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

SOURCE ID = STCK21      ; SOURCE TYPE = POINT      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
  13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
  19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

*** AERMOD - VERSION 23132 ***      *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc              ***      09/12/24
*** AERMET - VERSION 16216 ***      ***
***      09:33:33

```

PAGE 34

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = STCK22      ; SOURCE TYPE = POINT      :
  1 .00000E+00          2 .00000E+00          3 .00000E+00
4 .00000E+00           5 .00000E+00          6 .00000E+00
  7 .10000E+01          8 .10000E+01          9 .10000E+01
10 .10000E+01         11 .10000E+01         12 .10000E+01
 13 .10000E+01         14 .10000E+01         15 .10000E+01
16 .10000E+01         17 .10000E+01         18 .10000E+01
 19 .10000E+01         20 .10000E+01         21 .10000E+01
22 .10000E+01         23 .10000E+01         24 .00000E+00

```

```

SOURCE ID = VOL01      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00          2 .00000E+00          3 .00000E+00
4 .00000E+00           5 .00000E+00          6 .00000E+00
  7 .10000E+01          8 .10000E+01          9 .10000E+01
10 .10000E+01         11 .10000E+01         12 .10000E+01
 13 .10000E+01         14 .10000E+01         15 .10000E+01
16 .10000E+01         17 .10000E+01         18 .10000E+01
 19 .10000E+01         20 .10000E+01         21 .10000E+01
22 .10000E+01         23 .10000E+01         24 .00000E+00

```

```

SOURCE ID = VOL02      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00          2 .00000E+00          3 .00000E+00
4 .00000E+00           5 .00000E+00          6 .00000E+00
  7 .10000E+01          8 .10000E+01          9 .10000E+01
10 .10000E+01         11 .10000E+01         12 .10000E+01
 13 .10000E+01         14 .10000E+01         15 .10000E+01
16 .10000E+01         17 .10000E+01         18 .10000E+01
 19 .10000E+01         20 .10000E+01         21 .10000E+01
22 .10000E+01         23 .10000E+01         24 .00000E+00

```

```

SOURCE ID = VOL03      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00          2 .00000E+00          3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

SOURCE ID = VOL04		; SOURCE TYPE = VOLUME		:
	1 .00000E+00		2 .00000E+00	3 .00000E+00
4	.00000E+00	5	.00000E+00	6 .00000E+00
	7 .10000E+01		8 .10000E+01	9 .10000E+01
10	.10000E+01	11	.10000E+01	12 .10000E+01
	13 .10000E+01		14 .10000E+01	15 .10000E+01
16	.10000E+01	17	.10000E+01	18 .10000E+01
	19 .10000E+01		20 .10000E+01	21 .10000E+01
22	.10000E+01	23	.10000E+01	24 .00000E+00

```

*** AERMOD - VERSION 23132 ***      *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc              ***      09/12/24
*** AERMET - VERSION 16216 ***      ***
***      09:33:33

```

PAGE 35

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = VOL05      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL06      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL07      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL08      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

SOURCE ID = VOL09		; SOURCE TYPE = VOLUME		:	
	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***      *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc              ***      09/12/24
*** AERMET - VERSION 16216 ***      ***
***      09:33:33

```

PAGE 36

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = VOL10      ; SOURCE TYPE = VOLUME      :
  1  .00000E+00      2  .00000E+00      3  .00000E+00
4  .00000E+00      5  .00000E+00      6  .00000E+00
  7  .10000E+01      8  .10000E+01      9  .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL11      ; SOURCE TYPE = VOLUME      :
  1  .00000E+00      2  .00000E+00      3  .00000E+00
4  .00000E+00      5  .00000E+00      6  .00000E+00
  7  .10000E+01      8  .10000E+01      9  .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL12      ; SOURCE TYPE = VOLUME      :
  1  .00000E+00      2  .00000E+00      3  .00000E+00
4  .00000E+00      5  .00000E+00      6  .00000E+00
  7  .10000E+01      8  .10000E+01      9  .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL13      ; SOURCE TYPE = VOLUME      :
  1  .00000E+00      2  .00000E+00      3  .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

SOURCE ID = VOL14		; SOURCE TYPE = VOLUME		:
	1 .00000E+00		2 .00000E+00	3 .00000E+00
4	.00000E+00	5	.00000E+00	6 .00000E+00
	7 .10000E+01		8 .10000E+01	9 .10000E+01
10	.10000E+01	11	.10000E+01	12 .10000E+01
	13 .10000E+01		14 .10000E+01	15 .10000E+01
16	.10000E+01	17	.10000E+01	18 .10000E+01
	19 .10000E+01		20 .10000E+01	21 .10000E+01
22	.10000E+01	23	.10000E+01	24 .00000E+00

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 37

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = VOL15           ; SOURCE TYPE = VOLUME :
  1 .00000E+00             2 .00000E+00             3 .00000E+00
4 .00000E+00              5 .00000E+00             6 .00000E+00
  7 .10000E+01            8 .10000E+01            9 .10000E+01
10 .10000E+01            11 .10000E+01           12 .10000E+01
 13 .10000E+01           14 .10000E+01           15 .10000E+01
16 .10000E+01           17 .10000E+01           18 .10000E+01
 19 .10000E+01           20 .10000E+01           21 .10000E+01
22 .10000E+01           23 .10000E+01           24 .00000E+00

```

```

SOURCE ID = VOL16           ; SOURCE TYPE = VOLUME :
  1 .00000E+00             2 .00000E+00             3 .00000E+00
4 .00000E+00              5 .00000E+00             6 .00000E+00
  7 .10000E+01            8 .10000E+01            9 .10000E+01
10 .10000E+01            11 .10000E+01           12 .10000E+01
 13 .10000E+01           14 .10000E+01           15 .10000E+01
16 .10000E+01           17 .10000E+01           18 .10000E+01
 19 .10000E+01           20 .10000E+01           21 .10000E+01
22 .10000E+01           23 .10000E+01           24 .00000E+00

```

```

SOURCE ID = VOL17           ; SOURCE TYPE = VOLUME :
  1 .00000E+00             2 .00000E+00             3 .00000E+00
4 .00000E+00              5 .00000E+00             6 .00000E+00
  7 .10000E+01            8 .10000E+01            9 .10000E+01
10 .10000E+01            11 .10000E+01           12 .10000E+01
 13 .10000E+01           14 .10000E+01           15 .10000E+01
16 .10000E+01           17 .10000E+01           18 .10000E+01
 19 .10000E+01           20 .10000E+01           21 .10000E+01
22 .10000E+01           23 .10000E+01           24 .00000E+00

```

```

SOURCE ID = VOL18           ; SOURCE TYPE = VOLUME :
  1 .00000E+00             2 .00000E+00             3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

SOURCE ID = VOL19		; SOURCE TYPE = VOLUME		:
	1 .00000E+00		2 .00000E+00	3 .00000E+00
4	.00000E+00	5	.00000E+00	6 .00000E+00
	7 .10000E+01		8 .10000E+01	9 .10000E+01
10	.10000E+01	11	.10000E+01	12 .10000E+01
	13 .10000E+01		14 .10000E+01	15 .10000E+01
16	.10000E+01	17	.10000E+01	18 .10000E+01
	19 .10000E+01		20 .10000E+01	21 .10000E+01
22	.10000E+01	23	.10000E+01	24 .00000E+00

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 38

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = VOL20 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .10000E+01 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .10000E+01 21 .10000E+01
22 .10000E+01 23 .10000E+01 24 .00000E+00

```

```

SOURCE ID = VOL21 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .10000E+01 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .10000E+01 21 .10000E+01
22 .10000E+01 23 .10000E+01 24 .00000E+00

```

```

SOURCE ID = VOL22 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .10000E+01 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .10000E+01 21 .10000E+01
22 .10000E+01 23 .10000E+01 24 .00000E+00

```

```

SOURCE ID = VOL23 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

SOURCE ID = VOL24		; SOURCE TYPE = VOLUME		:
	1 .00000E+00		2 .00000E+00	3 .00000E+00
4	.00000E+00	5	.00000E+00	6 .00000E+00
	7 .10000E+01		8 .10000E+01	9 .10000E+01
10	.10000E+01	11	.10000E+01	12 .10000E+01
	13 .10000E+01		14 .10000E+01	15 .10000E+01
16	.10000E+01	17	.10000E+01	18 .10000E+01
	19 .10000E+01		20 .10000E+01	21 .10000E+01
22	.10000E+01	23	.10000E+01	24 .00000E+00

```

*** AERMOD - VERSION 23132 ***      *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc                ***      09/12/24
*** AERMET - VERSION 16216 ***      ***
***      09:33:33

```

PAGE 39

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = VOL25      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL26      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL27      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL28      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

SOURCE ID = VOL29		; SOURCE TYPE = VOLUME		:	
	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***      *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc                ***      09/12/24
*** AERMET - VERSION 16216 ***      ***
***      09:33:33

```

PAGE 40

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = VOL30      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL31      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL32      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL33      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

SOURCE ID = VOL34		; SOURCE TYPE = VOLUME		:	
	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***      *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc              ***      09/12/24
*** AERMET - VERSION 16216 ***      ***
***      09:33:33

```

PAGE 41

\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = VOL35      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL36      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL37      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = VOL38      ; SOURCE TYPE = VOLUME      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

SOURCE ID = VOL39		; SOURCE TYPE = VOLUME		:	
	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 42

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = VOL40 ; SOURCE TYPE = VOLUME :
  1 .00000E+00    2 .00000E+00    3 .00000E+00
4  .00000E+00    5 .00000E+00    6 .00000E+00
  7 .10000E+01    8 .10000E+01    9 .10000E+01
10 .10000E+01   11 .10000E+01   12 .10000E+01
 13 .10000E+01   14 .10000E+01   15 .10000E+01
16 .10000E+01   17 .10000E+01   18 .10000E+01
 19 .10000E+01   20 .10000E+01   21 .10000E+01
22 .10000E+01   23 .10000E+01   24 .00000E+00

```

```

SOURCE ID = VOL41 ; SOURCE TYPE = VOLUME :
  1 .00000E+00    2 .00000E+00    3 .00000E+00
4  .00000E+00    5 .00000E+00    6 .00000E+00
  7 .10000E+01    8 .10000E+01    9 .10000E+01
10 .10000E+01   11 .10000E+01   12 .10000E+01
 13 .10000E+01   14 .10000E+01   15 .10000E+01
16 .10000E+01   17 .10000E+01   18 .10000E+01
 19 .10000E+01   20 .10000E+01   21 .10000E+01
22 .10000E+01   23 .10000E+01   24 .00000E+00

```

```

SOURCE ID = VOL42 ; SOURCE TYPE = VOLUME :
  1 .00000E+00    2 .00000E+00    3 .00000E+00
4  .00000E+00    5 .00000E+00    6 .00000E+00
  7 .10000E+01    8 .10000E+01    9 .10000E+01
10 .10000E+01   11 .10000E+01   12 .10000E+01
 13 .10000E+01   14 .10000E+01   15 .10000E+01
16 .10000E+01   17 .10000E+01   18 .10000E+01
 19 .10000E+01   20 .10000E+01   21 .10000E+01
22 .10000E+01   23 .10000E+01   24 .00000E+00

```

```

SOURCE ID = VOL43 ; SOURCE TYPE = VOLUME :
  1 .00000E+00    2 .00000E+00    3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

SOURCE ID = VOL44          ; SOURCE TYPE = VOLUME      :
  1 .00000E+00          2 .00000E+00          3 .00000E+00
4 .00000E+00          5 .00000E+00          6 .00000E+00
  7 .10000E+01          8 .10000E+01          9 .10000E+01
10 .10000E+01        11 .10000E+01        12 .10000E+01
  13 .10000E+01        14 .10000E+01        15 .10000E+01
16 .10000E+01        17 .10000E+01        18 .10000E+01
  19 .10000E+01        20 .10000E+01        21 .10000E+01
22 .10000E+01        23 .10000E+01        24 .00000E+00

```

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 43

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---

```

SOURCE ID = VOL45 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .10000E+01 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .10000E+01 21 .10000E+01
22 .10000E+01 23 .10000E+01 24 .00000E+00

```

```

SOURCE ID = VOL46 ; SOURCE TYPE = VOLUME :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .10000E+01 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .10000E+01 21 .10000E+01
22 .10000E+01 23 .10000E+01 24 .00000E+00

```

```

SOURCE ID = A0000051 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .10000E+01 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .10000E+01 21 .10000E+01
22 .10000E+01 23 .10000E+01 24 .00000E+00

```

```

SOURCE ID = A0000052 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

SOURCE ID = A0000053 ; SOURCE TYPE = AREA :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 44

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = A0000054 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4  .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = A0000055 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4  .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = A0000056 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4  .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = A0000057 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

SOURCE ID = A0000058 ; SOURCE TYPE = AREA :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 45

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---

```

SOURCE ID = A0000076 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = A0000077 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = A0000078 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = A0000101 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

SOURCE ID = A0000102      ; SOURCE TYPE = AREA      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
  13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
  19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 46

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = A0000103 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .10000E+01 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .10000E+01 21 .10000E+01
22 .10000E+01 23 .10000E+01 24 .00000E+00

```

```

SOURCE ID = A0000104 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .10000E+01 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .10000E+01 21 .10000E+01
22 .10000E+01 23 .10000E+01 24 .00000E+00

```

```

SOURCE ID = A0000105 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .10000E+01 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .10000E+01 21 .10000E+01
22 .10000E+01 23 .10000E+01 24 .00000E+00

```

```

SOURCE ID = A0000106 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

SOURCE ID = A0000107 ; SOURCE TYPE = AREA :

	1 .00000E+00		2 .00000E+00		3 .00000E+00
4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 47

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = A0000108 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .10000E+01 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .10000E+01 21 .10000E+01
22 .10000E+01 23 .10000E+01 24 .00000E+00

```

```

SOURCE ID = A0000109 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .10000E+01 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .10000E+01 21 .10000E+01
22 .10000E+01 23 .10000E+01 24 .00000E+00

```

```

SOURCE ID = A0000110 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00
4 .00000E+00 5 .00000E+00 6 .00000E+00
7 .10000E+01 8 .10000E+01 9 .10000E+01
10 .10000E+01 11 .10000E+01 12 .10000E+01
13 .10000E+01 14 .10000E+01 15 .10000E+01
16 .10000E+01 17 .10000E+01 18 .10000E+01
19 .10000E+01 20 .10000E+01 21 .10000E+01
22 .10000E+01 23 .10000E+01 24 .00000E+00

```

```

SOURCE ID = A0000111 ; SOURCE TYPE = AREA :
1 .00000E+00 2 .00000E+00 3 .00000E+00

```

4	.00000E+00	5	.00000E+00	6	.00000E+00
	7 .10000E+01		8 .10000E+01		9 .10000E+01
10	.10000E+01	11	.10000E+01	12	.10000E+01
	13 .10000E+01		14 .10000E+01		15 .10000E+01
16	.10000E+01	17	.10000E+01	18	.10000E+01
	19 .10000E+01		20 .10000E+01		21 .10000E+01
22	.10000E+01	23	.10000E+01	24	.00000E+00

```

SOURCE ID = A0000112      ; SOURCE TYPE = AREA      :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4 .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
  13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
  19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 48

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE EMISSION RATE SCALARS WHICH VARY FOR EACH HOUR OF THE DAY \*

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
---	---	---	---	---	---
---	---	---	---	---	---

```

SOURCE ID = A0000113 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4  .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

SOURCE ID = A0000114 ; SOURCE TYPE = AREA :
  1 .00000E+00      2 .00000E+00      3 .00000E+00
4  .00000E+00      5 .00000E+00      6 .00000E+00
  7 .10000E+01      8 .10000E+01      9 .10000E+01
10 .10000E+01     11 .10000E+01     12 .10000E+01
 13 .10000E+01     14 .10000E+01     15 .10000E+01
16 .10000E+01     17 .10000E+01     18 .10000E+01
 19 .10000E+01     20 .10000E+01     21 .10000E+01
22 .10000E+01     23 .10000E+01     24 .00000E+00

```

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 49

```

*** MODELOPTs:      RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

```

\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

```

( 483654.7, 3721301.6, 481.4, 653.5, 0.0);
( 483655.0, 3721256.4, 483.7, 653.5, 0.0);
( 483624.7, 3721170.7, 486.0, 653.5, 0.0);
( 483571.3, 3721699.0, 478.5, 478.5, 0.0);
( 483348.5, 3721685.4, 479.5, 678.2, 0.0);
( 483231.0, 3721502.9, 484.2, 678.2, 0.0);
( 483010.0, 3721009.0, 500.4, 693.9, 0.0);
( 483110.0, 3721009.0, 496.5, 693.9, 0.0);
( 483210.0, 3721009.0, 495.4, 678.2, 0.0);
( 483310.0, 3721009.0, 493.8, 678.2, 0.0);
( 483410.0, 3721009.0, 489.9, 678.2, 0.0);
( 483510.0, 3721009.0, 486.4, 678.2, 0.0);
( 483610.0, 3721009.0, 484.1, 678.1, 0.0);
( 483710.0, 3721009.0, 484.7, 653.5, 0.0);
( 483810.0, 3721009.0, 482.4, 653.5, 0.0);
( 483910.0, 3721009.0, 479.6, 647.1, 0.0);
( 484010.0, 3721009.0, 479.5, 479.5, 0.0);
( 483010.0, 3721109.0, 497.8, 693.9, 0.0);
( 483110.0, 3721109.0, 492.6, 693.9, 0.0);
( 483210.0, 3721109.0, 491.9, 678.2, 0.0);
( 483310.0, 3721109.0, 493.1, 678.2, 0.0);
( 483410.0, 3721109.0, 486.9, 678.2, 0.0);
( 483510.0, 3721109.0, 485.5, 678.2, 0.0);
( 483610.0, 3721109.0, 485.0, 678.1, 0.0);
( 483710.0, 3721109.0, 481.7, 653.5, 0.0);
( 483810.0, 3721109.0, 480.8, 653.5, 0.0);
( 483910.0, 3721109.0, 479.2, 647.1, 0.0);
( 484010.0, 3721109.0, 478.0, 479.1, 0.0);
( 483010.0, 3721209.0, 502.4, 678.2, 0.0);
( 483110.0, 3721209.0, 490.4, 692.5, 0.0);
( 483210.0, 3721209.0, 487.3, 678.2, 0.0);
( 483310.0, 3721209.0, 489.6, 678.2, 0.0);
( 483410.0, 3721209.0, 486.3, 678.2, 0.0);
( 483510.0, 3721209.0, 483.7, 678.2, 0.0);
( 483610.0, 3721209.0, 484.1, 678.1, 0.0);
( 483710.0, 3721209.0, 481.7, 653.5, 0.0);
( 483810.0, 3721209.0, 479.4, 650.6, 0.0);

```

( 483910.0, 3721209.0, 478.2, 478.2, 0.0);  
 ( 484010.0, 3721209.0, 476.2, 476.2, 0.0);  
 ( 483010.0, 3721309.0, 497.5, 692.5, 0.0);  
 ( 483110.0, 3721309.0, 488.1, 692.5, 0.0);  
 ( 483210.0, 3721309.0, 485.0, 678.2, 0.0);  
 ( 483310.0, 3721309.0, 483.1, 678.2, 0.0);  
 ( 483410.0, 3721309.0, 482.8, 678.2, 0.0);  
 ( 483510.0, 3721309.0, 482.1, 678.2, 0.0);  
 ( 483610.0, 3721309.0, 481.9, 678.1, 0.0);  
 ( 483710.0, 3721309.0, 480.4, 653.5, 0.0);  
 ( 483810.0, 3721309.0, 477.3, 647.1, 0.0);  
 ( 483910.0, 3721309.0, 476.7, 476.7, 0.0);  
 ( 484010.0, 3721309.0, 476.2, 476.2, 0.0);  
 ( 483010.0, 3721409.0, 490.5, 692.5, 0.0);  
 ( 483110.0, 3721409.0, 487.8, 678.2, 0.0);  
 ( 483210.0, 3721409.0, 486.2, 678.2, 0.0);  
 ( 483310.0, 3721409.0, 482.1, 678.2, 0.0);  
 ( 483410.0, 3721409.0, 482.0, 678.2, 0.0);  
 ( 483510.0, 3721409.0, 480.6, 678.2, 0.0);  
 ( 483610.0, 3721409.0, 480.6, 653.5, 0.0);  
 ( 483710.0, 3721409.0, 479.9, 647.1, 0.0);  
 ( 483810.0, 3721409.0, 477.2, 647.1, 0.0);  
 ( 483910.0, 3721409.0, 476.6, 476.6, 0.0);  
 ( 484010.0, 3721409.0, 475.9, 475.9, 0.0);  
 ( 483010.0, 3721509.0, 488.2, 678.2, 0.0);  
 ( 483110.0, 3721509.0, 486.4, 678.2, 0.0);  
 ( 483210.0, 3721509.0, 484.5, 678.2, 0.0);  
 ( 483310.0, 3721509.0, 481.2, 678.2, 0.0);  
 ( 483710.0, 3721509.0, 477.6, 647.1, 0.0);  
 ( 483810.0, 3721509.0, 476.5, 476.5, 0.0);  
 ( 483910.0, 3721509.0, 475.9, 475.9, 0.0);  
 ( 484010.0, 3721509.0, 474.9, 474.9, 0.0);  
 ( 483010.0, 3721609.0, 486.8, 678.2, 0.0);  
 ( 483110.0, 3721609.0, 484.2, 678.2, 0.0);  
 ( 483210.0, 3721609.0, 483.2, 678.2, 0.0);  
 ( 483310.0, 3721609.0, 479.6, 678.2, 0.0);  
 ( 483710.0, 3721609.0, 475.8, 475.8, 0.0);  
 ( 483810.0, 3721609.0, 475.9, 475.9, 0.0);  
 ( 483910.0, 3721609.0, 474.6, 474.6, 0.0);  
 ( 484010.0, 3721609.0, 474.0, 474.0, 0.0);  
 ( 483010.0, 3721709.0, 485.9, 678.2, 0.0);  
 ( 483110.0, 3721709.0, 481.7, 678.2, 0.0);  
 ( 483210.0, 3721709.0, 479.7, 678.2, 0.0);  
 ( 483310.0, 3721709.0, 478.8, 678.2, 0.0);  
 ( 483410.0, 3721709.0, 475.7, 678.2, 0.0);  
 ( 483510.0, 3721709.0, 474.6, 653.5, 0.0);  
 ( 483610.0, 3721709.0, 476.9, 476.9, 0.0);  
 ( 483710.0, 3721709.0, 475.0, 475.0, 0.0);  
 ( 483810.0, 3721709.0, 472.7, 472.7, 0.0);  
 ( 483910.0, 3721709.0, 473.0, 473.0, 0.0);  
 ( 484010.0, 3721709.0, 471.8, 471.8, 0.0);  
 ( 483010.0, 3721809.0, 480.4, 678.2, 0.0);

( 483110.0, 3721809.0, 479.1, 678.2, 0.0);

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 50

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* DISCRETE

CARTESIAN RECEPTORS \*\*\*

(X-COORD, Y-COORD,

ZELEV, ZHILL, ZFLAG)

(METERS)

```

( 483210.0, 3721809.0, 481.5, 678.2, 0.0);
( 483310.0, 3721809.0, 475.6, 678.2, 0.0);
( 483410.0, 3721809.0, 473.4, 678.1, 0.0);
( 483510.0, 3721809.0, 472.1, 653.5, 0.0);
( 483610.0, 3721809.0, 476.0, 476.0, 0.0);
( 483710.0, 3721809.0, 474.9, 474.9, 0.0);
( 483810.0, 3721809.0, 472.3, 472.3, 0.0);
( 483910.0, 3721809.0, 471.0, 471.0, 0.0);
( 484010.0, 3721809.0, 470.6, 470.6, 0.0);
( 483010.0, 3721909.0, 478.5, 678.2, 0.0);
( 483110.0, 3721909.0, 477.4, 678.2, 0.0);
( 483210.0, 3721909.0, 479.0, 678.2, 0.0);
( 483310.0, 3721909.0, 474.1, 678.2, 0.0);
( 483410.0, 3721909.0, 471.5, 653.5, 0.0);
( 483510.0, 3721909.0, 470.2, 470.2, 0.0);
( 483610.0, 3721909.0, 473.1, 473.1, 0.0);
( 483710.0, 3721909.0, 472.1, 472.1, 0.0);
( 483810.0, 3721909.0, 472.0, 472.0, 0.0);
( 483910.0, 3721909.0, 469.2, 469.2, 0.0);
( 484010.0, 3721909.0, 469.6, 469.6, 0.0);
( 483010.0, 3722009.0, 476.6, 678.2, 0.0);
( 483110.0, 3722009.0, 476.2, 678.2, 0.0);
( 483210.0, 3722009.0, 474.2, 678.2, 0.0);
( 483310.0, 3722009.0, 481.8, 484.0, 0.0);
( 483410.0, 3722009.0, 472.4, 484.0, 0.0);
( 483510.0, 3722009.0, 469.1, 469.1, 0.0);
( 483610.0, 3722009.0, 470.8, 470.8, 0.0);
( 483710.0, 3722009.0, 470.4, 470.4, 0.0);
( 483810.0, 3722009.0, 469.9, 469.9, 0.0);
( 483910.0, 3722009.0, 467.1, 467.1, 0.0);
( 484010.0, 3722009.0, 466.0, 466.0, 0.0);

```

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 51

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\* SOURCE-RECEPTOR COMBINATIONS FOR WHICH  
CALCULATIONS MAY NOT BE PERFORMED \*  
LESS THAN 1.0 METER; WITHIN OPENPIT; OR  
BEYOND 80KM FOR FASTAREA/FASTALL

LOCATION - - (METERS)	DISTANCE (METERS)	SOURCE ID	- - RECEPTOR XR (METERS) YR
3721409.0	-2.54	VOL01	483710.0

```

*** AERMOD - VERSION 23132 ***      *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc              ***      09/12/24
*** AERMET - VERSION 16216 ***      ***
***      09:33:33

```

PAGE 52

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* METEOROLOGICAL

DAYS SELECTED FOR PROCESSING \*\*\*

(1

=YES; 0=NO)

1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1
1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED  
WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

\*\*\* UPPER BOUND OF FIRST  
THROUGH FIFTH WIND SPEED CATEGORIES \*\*\*

(METERS/SEC)

5.14, 8.23, 10.80, 1.54, 3.09,

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 53

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* UP TO THE FIRST 24 HOURS

OF METEOROLOGICAL DATA \*\*\*

```

Surface file:  Z:\Shared\San Jose\Env\17015_Menifee-PEMCO
\Project-Materials\AERMOD\PERI_V9_ADJ  Met Version: 16216
Profile file:  Z:\Shared\San Jose\Env\17015_Menifee-PEMCO
\Project-Materials\AERMOD\PERI_V9_ADJ
Surface format: FREE
Profile format: FREE
Surface station no.:      3171           Upper air
station no.:      3190
Name: UNKNOWN
Year: 2010

```

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN
Z0	BOWEN	ALBEDO	REF	WS	WD	HT	REF	TA	HT			
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.		21.2
0.19	0.61	1.00		1.30	335.	9.1	282.5	5.5				
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.		15.1
0.19	0.61	1.00		0.90	142.	9.1	280.9	5.5				
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.		15.1
0.19	0.61	1.00		0.90	324.	9.1	280.4	5.5				
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.		18.3
0.19	0.61	1.00		0.40	294.	9.1	278.8	5.5				
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.		15.0
0.19	0.61	1.00		0.90	205.	9.1	278.1	5.5				
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.		18.3
0.19	0.61	1.00		0.40	3.	9.1	277.0	5.5				
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.		21.0
0.19	0.61	1.00		1.30	99.	9.1	277.0	5.5				
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.		16.8
0.19	0.61	0.54		0.90	319.	9.1	278.8	5.5				
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.		-9.0
0.19	0.61	0.33		0.90	239.	9.1	284.2	5.5				
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.		-1.0
0.19	0.61	0.26		0.40	188.	9.1	289.2	5.5				
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.		-35.9
0.19	0.61	0.23		2.70	310.	9.1	290.9	5.5				
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.		-19.7

0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5				
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4
0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5				
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2
0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5				
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2
0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5				
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5
0.19	0.61	0.36	1.80	11.	9.1	292.5	5.5				
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6
0.19	0.61	0.64	0.90	351.	9.1	290.4	5.5				
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2
0.19	0.61	1.00	0.90	186.	9.1	287.5	5.5				
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2
0.19	0.61	1.00	0.90	275.	9.1	285.9	5.5				
10	01	01	1	20	-1.2	0.064	-9.000	-9.000	-999.	39.	18.1
0.19	0.61	1.00	0.40	181.	9.1	285.4	5.5				
10	01	01	1	21	-7.8	0.125	-9.000	-9.000	-999.	106.	21.3
0.19	0.61	1.00	1.30	318.	9.1	284.9	5.5				
10	01	01	1	22	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1
0.19	0.61	1.00	0.90	196.	9.1	283.1	5.5				
10	01	01	1	23	-3.8	0.088	-9.000	-9.000	-999.	62.	15.1
0.19	0.61	1.00	0.90	330.	9.1	281.4	5.5				
10	01	01	1	24	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2
0.19	0.61	1.00	1.30	332.	9.1	280.9	5.5				

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
10	01	01	01	5.5	0	-999.	-99.00	282.6			
99.0	-99.00	-99.00									
10	01	01	01	9.1	1	335.	1.30	-999.0			
99.0	-99.00	-99.00									

F indicates top of profile (=1) or below (=0)



483210.00	3721109.00	0.00370	
	483310.00	3721109.00	0.00492
483410.00	3721109.00	0.00747	
	483510.00	3721109.00	0.01028
483610.00	3721109.00	0.01234	
	483710.00	3721109.00	0.01307
483810.00	3721109.00	0.01164	
	483910.00	3721109.00	0.00897
484010.00	3721109.00	0.00627	
	483010.00	3721209.00	0.00232
483110.00	3721209.00	0.00351	
	483210.00	3721209.00	0.00515
483310.00	3721209.00	0.00758	
	483410.00	3721209.00	0.01252
483510.00	3721209.00	0.01752	
	483610.00	3721209.00	0.01976
483710.00	3721209.00	0.01962	
	483810.00	3721209.00	0.01534
483910.00	3721209.00	0.00998	
	484010.00	3721209.00	0.00607
483010.00	3721309.00	0.00257	
	483110.00	3721309.00	0.00419
483210.00	3721309.00	0.00724	
	483310.00	3721309.00	0.01440
483410.00	3721309.00	0.02721	
	483510.00	3721309.00	0.03544
483610.00	3721309.00	0.03728	
	483710.00	3721309.00	0.03265
483810.00	3721309.00	0.01947	
	483910.00	3721309.00	0.00982
484010.00	3721309.00	0.00519	
	483010.00	3721409.00	0.00270
483110.00	3721409.00	0.00450	
	483210.00	3721409.00	0.00924
483310.00	3721409.00	0.03878	
	483410.00	3721409.00	0.09435
483510.00	3721409.00	0.10451	
	483610.00	3721409.00	0.10716
483710.00	3721409.00	0.07304	
	483810.00	3721409.00	0.02033
483910.00	3721409.00	0.00784	
	484010.00	3721409.00	0.00385
483010.00	3721509.00	0.00264	
	483110.00	3721509.00	0.00448
483210.00	3721509.00	0.01042	
	483310.00	3721509.00	0.06742
483710.00	3721509.00	0.10439	
	483810.00	3721509.00	0.01482
483910.00	3721509.00	0.00520	
	484010.00	3721509.00	0.00274
483010.00	3721609.00	0.00262	
	483110.00	3721609.00	0.00450

483210.00	3721609.00	0.00980	
	483310.00	3721609.00	0.05132
483710.00	3721609.00	0.05376	
	483810.00	3721609.00	0.00921
483910.00	3721609.00	0.00391	
	484010.00	3721609.00	0.00225
483010.00	3721709.00	0.00264	
	483110.00	3721709.00	0.00435
483210.00	3721709.00	0.00820	

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 55

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: Y1\_ALL \*\*\*  
INCLUDING SOURCE(S):

```

PAREA01 , PAREA02 , PAREA03 , PAREA04 ,
PAREA05 ,
          A0000001 , A0000002 , A0000003 ,
A0000004 , A0000005 , A0000006 , A0000007 ,
A0000008 ,
          A0000009 , A0000010 , A0000011 ,
A0000012 , A0000013 , A0000014 , A0000015 ,
A0000016 ,
          A0000017 , A0000018 , A0000019 ,
A0000020 , A0000021 , A0000022 ,
A0000023 , . . . ,

```

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN \*\*

X-COORD (M)	Y-COORD (M)	CONC
483310.00	3721709.00	0.01682
483410.00	3721709.00	0.02451
483510.00	3721709.00	0.02768
483610.00	3721709.00	0.02799
483710.00	3721709.00	0.01777
483810.00	3721709.00	0.00739
483910.00	3721709.00	0.00364
484010.00	3721709.00	0.00216
483010.00	3721809.00	0.00266
483110.00	3721809.00	0.00398
483210.00	3721809.00	0.00627
483310.00	3721809.00	0.00965
483410.00	3721809.00	0.01248
483510.00	3721809.00	0.01369
483610.00	3721809.00	0.01286
483710.00	3721809.00	0.00951
483810.00	3721809.00	0.00564
483910.00	3721809.00	0.00334
484010.00	3721809.00	0.00212

483010.00	3721909.00	0.00251	
	483110.00	3721909.00	0.00350
483210.00	3721909.00	0.00493	
	483310.00	3721909.00	0.00657
483410.00	3721909.00	0.00783	
	483510.00	3721909.00	0.00825
483610.00	3721909.00	0.00763	
	483710.00	3721909.00	0.00616
483810.00	3721909.00	0.00427	
	483910.00	3721909.00	0.00291
484010.00	3721909.00	0.00202	
	483010.00	3722009.00	0.00231
483110.00	3722009.00	0.00304	
	483210.00	3722009.00	0.00394
483310.00	3722009.00	0.00483	
	483410.00	3722009.00	0.00547
483510.00	3722009.00	0.00557	
	483610.00	3722009.00	0.00515
483710.00	3722009.00	0.00443	
	483810.00	3722009.00	0.00332
483910.00	3722009.00	0.00247	
	484010.00	3722009.00	0.00185



	483010.00	3721209.00	0.00231
483110.00	3721209.00	0.00351	
	483210.00	3721209.00	0.00515
483310.00	3721209.00	0.00758	
	483410.00	3721209.00	0.01252
483510.00	3721209.00	0.01751	
	483610.00	3721209.00	0.01975
483710.00	3721209.00	0.01961	
	483810.00	3721209.00	0.01533
483910.00	3721209.00	0.00996	
	484010.00	3721209.00	0.00604
483010.00	3721309.00	0.00257	
	483110.00	3721309.00	0.00419
483210.00	3721309.00	0.00724	
	483310.00	3721309.00	0.01440
483410.00	3721309.00	0.02720	
	483510.00	3721309.00	0.03544
483610.00	3721309.00	0.03728	
	483710.00	3721309.00	0.03264
483810.00	3721309.00	0.01945	
	483910.00	3721309.00	0.00980
484010.00	3721309.00	0.00515	
	483010.00	3721409.00	0.00270
483110.00	3721409.00	0.00449	
	483210.00	3721409.00	0.00923
483310.00	3721409.00	0.03878	
	483410.00	3721409.00	0.09434
483510.00	3721409.00	0.10450	
	483610.00	3721409.00	0.10715
483710.00	3721409.00	0.07302	
	483810.00	3721409.00	0.02030
483910.00	3721409.00	0.00781	
	484010.00	3721409.00	0.00382
483010.00	3721509.00	0.00264	
	483110.00	3721509.00	0.00447
483210.00	3721509.00	0.01041	
	483310.00	3721509.00	0.06741
483710.00	3721509.00	0.10429	
	483810.00	3721509.00	0.01478
483910.00	3721509.00	0.00518	
	484010.00	3721509.00	0.00271
483010.00	3721609.00	0.00262	
	483110.00	3721609.00	0.00450
483210.00	3721609.00	0.00980	
	483310.00	3721609.00	0.05132
483710.00	3721609.00	0.05358	
	483810.00	3721609.00	0.00917
483910.00	3721609.00	0.00389	
	484010.00	3721609.00	0.00222
483010.00	3721709.00	0.00264	
	483110.00	3721709.00	0.00435
483210.00	3721709.00	0.00820	





	483910.00	3721909.00	0.00288
484010.00	3721909.00	0.00198	
	483010.00	3722009.00	0.00231
483110.00	3722009.00	0.00304	
	483210.00	3722009.00	0.00393
483310.00	3722009.00	0.00482	
	483410.00	3722009.00	0.00547
483510.00	3722009.00	0.00556	
	483610.00	3722009.00	0.00512
483710.00	3722009.00	0.00424	
	483810.00	3722009.00	0.00327
483910.00	3722009.00	0.00244	
	484010.00	3722009.00	0.00181

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 58

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: Y1\_OFF \*\*\*  
INCLUDING SOURCE(S):

```

A0000001 , A0000002 , A0000003 , A0000004 ,
A0000005 ,
          A0000006 , A0000007 , A0000008 ,
A0000009 , A0000010 , A0000011 , A0000012 ,
A0000013 ,
          A0000014 , A0000015 , A0000016 ,
A0000017 , A0000018 , A0000019 , A0000020 ,
A0000021 ,
          A0000022 , A0000023 , A0000024 ,
A0000025 ,

```

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN \*\*

X-COORD (M)	Y-COORD (M)	CONC
483654.71	3721301.62	0.00001
483654.99	3721256.45	0.00001
483624.73	3721170.69	0.00001
483571.29	3721698.97	0.00002
483348.55	3721685.43	0.00001
483230.98	3721502.86	0.00000
483010.00	3721009.00	0.00000
483110.00	3721009.00	0.00000
483210.00	3721009.00	0.00000
483310.00	3721009.00	0.00000
483410.00	3721009.00	0.00000
483510.00	3721009.00	0.00000
483610.00	3721009.00	0.00000
483710.00	3721009.00	0.00001
483810.00	3721009.00	0.00001
483910.00	3721009.00	0.00001
484010.00	3721009.00	0.00003
483010.00	3721109.00	0.00000
483110.00	3721109.00	0.00000
483210.00	3721109.00	0.00000

	483310.00	3721109.00	0.00000
483410.00	3721109.00	0.00000	
	483510.00	3721109.00	0.00000
483610.00	3721109.00	0.00001	
	483710.00	3721109.00	0.00001
483810.00	3721109.00	0.00001	
	483910.00	3721109.00	0.00001
484010.00	3721109.00	0.00003	
	483010.00	3721209.00	0.00000
483110.00	3721209.00	0.00000	
	483210.00	3721209.00	0.00000
483310.00	3721209.00	0.00000	
	483410.00	3721209.00	0.00000
483510.00	3721209.00	0.00000	
	483610.00	3721209.00	0.00001
483710.00	3721209.00	0.00001	
	483810.00	3721209.00	0.00001
483910.00	3721209.00	0.00002	
	484010.00	3721209.00	0.00003
483010.00	3721309.00	0.00000	
	483110.00	3721309.00	0.00000
483210.00	3721309.00	0.00000	
	483310.00	3721309.00	0.00000
483410.00	3721309.00	0.00000	
	483510.00	3721309.00	0.00001
483610.00	3721309.00	0.00001	
	483710.00	3721309.00	0.00001
483810.00	3721309.00	0.00002	
	483910.00	3721309.00	0.00002
484010.00	3721309.00	0.00003	
	483010.00	3721409.00	0.00000
483110.00	3721409.00	0.00000	
	483210.00	3721409.00	0.00000
483310.00	3721409.00	0.00000	
	483410.00	3721409.00	0.00001
483510.00	3721409.00	0.00001	
	483610.00	3721409.00	0.00001
483710.00	3721409.00	0.00002	
	483810.00	3721409.00	0.00002
483910.00	3721409.00	0.00002	
	484010.00	3721409.00	0.00003
483010.00	3721509.00	0.00000	
	483110.00	3721509.00	0.00000
483210.00	3721509.00	0.00000	
	483310.00	3721509.00	0.00000
483710.00	3721509.00	0.00010	
	483810.00	3721509.00	0.00004
483910.00	3721509.00	0.00003	
	484010.00	3721509.00	0.00003
483010.00	3721609.00	0.00000	
	483110.00	3721609.00	0.00000
483210.00	3721609.00	0.00000	

	483310.00	3721609.00	0.00000
483710.00	3721609.00	0.00018	
	483810.00	3721609.00	0.00004
483910.00	3721609.00	0.00003	
	484010.00	3721609.00	0.00003
483010.00	3721709.00	0.00000	
	483110.00	3721709.00	0.00000
483210.00	3721709.00	0.00000	

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 59

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

```

*** THE PERIOD ( 43824 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: Y1_OFF ***
INCLUDING SOURCE(S):

```

```

A0000001 , A0000002 , A0000003 , A0000004 ,
A0000005 ,
          A0000006 , A0000007 , A0000008 ,
A0000009 , A0000010 , A0000011 , A0000012 ,
A0000013 ,
          A0000014 , A0000015 , A0000016 ,
A0000017 , A0000018 , A0000019 , A0000020 ,
A0000021 ,
          A0000022 , A0000023 , A0000024 ,
A0000025 ,

```

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

```

MICROGRAMS/M**3           ** CONC OF PM_10   IN
                          **

```

X-COORD (M)	Y-COORD (M)	CONC
483310.00	3721709.00	0.00000
483410.00	3721709.00	0.00001
483510.00	3721709.00	0.00001
483610.00	3721709.00	0.00002
483710.00	3721709.00	0.00019
483810.00	3721709.00	0.00004
483910.00	3721709.00	0.00003
484010.00	3721709.00	0.00004
483010.00	3721809.00	0.00000
483110.00	3721809.00	0.00000
483210.00	3721809.00	0.00000
483310.00	3721809.00	0.00001
483410.00	3721809.00	0.00001
483510.00	3721809.00	0.00001
483610.00	3721809.00	0.00003
483710.00	3721809.00	0.00020
483810.00	3721809.00	0.00004
483910.00	3721809.00	0.00003
484010.00	3721809.00	0.00004
483010.00	3721909.00	0.00000

	483110.00	3721909.00	0.00000
483210.00	3721909.00	0.00000	
	483310.00	3721909.00	0.00001
483410.00	3721909.00	0.00001	
	483510.00	3721909.00	0.00001
483610.00	3721909.00	0.00003	
	483710.00	3721909.00	0.00018
483810.00	3721909.00	0.00005	
	483910.00	3721909.00	0.00003
484010.00	3721909.00	0.00004	
	483010.00	3722009.00	0.00000
483110.00	3722009.00	0.00000	
	483210.00	3722009.00	0.00000
483310.00	3722009.00	0.00001	
	483410.00	3722009.00	0.00001
483510.00	3722009.00	0.00001	
	483610.00	3722009.00	0.00003
483710.00	3722009.00	0.00019	
	483810.00	3722009.00	0.00005
483910.00	3722009.00	0.00003	
	484010.00	3722009.00	0.00004



483210.00	3721109.00	0.00106	
	483310.00	3721109.00	0.00142
483410.00	3721109.00	0.00218	
	483510.00	3721109.00	0.00300
483610.00	3721109.00	0.00356	
	483710.00	3721109.00	0.00368
483810.00	3721109.00	0.00320	
	483910.00	3721109.00	0.00241
484010.00	3721109.00	0.00166	
	483010.00	3721209.00	0.00066
483110.00	3721209.00	0.00101	
	483210.00	3721209.00	0.00149
483310.00	3721209.00	0.00221	
	483410.00	3721209.00	0.00368
483510.00	3721209.00	0.00514	
	483610.00	3721209.00	0.00571
483710.00	3721209.00	0.00548	
	483810.00	3721209.00	0.00413
483910.00	3721209.00	0.00262	
	484010.00	3721209.00	0.00158
483010.00	3721309.00	0.00074	
	483110.00	3721309.00	0.00122
483210.00	3721309.00	0.00212	
	483310.00	3721309.00	0.00427
483410.00	3721309.00	0.00812	
	483510.00	3721309.00	0.01048
483610.00	3721309.00	0.01073	
	483710.00	3721309.00	0.00897
483810.00	3721309.00	0.00507	
	483910.00	3721309.00	0.00249
484010.00	3721309.00	0.00132	
	483010.00	3721409.00	0.00078
483110.00	3721409.00	0.00131	
	483210.00	3721409.00	0.00273
483310.00	3721409.00	0.01173	
	483410.00	3721409.00	0.02863
483510.00	3721409.00	0.03134	
	483610.00	3721409.00	0.03101
483710.00	3721409.00	0.01987	
	483810.00	3721409.00	0.00496
483910.00	3721409.00	0.00192	
	484010.00	3721409.00	0.00098
483010.00	3721509.00	0.00076	
	483110.00	3721509.00	0.00131
483210.00	3721509.00	0.00310	
	483310.00	3721509.00	0.02051
483710.00	3721509.00	0.02346	
	483810.00	3721509.00	0.00347
483910.00	3721509.00	0.00129	
	484010.00	3721509.00	0.00071
483010.00	3721609.00	0.00076	
	483110.00	3721609.00	0.00132

483210.00	3721609.00	0.00291	
	483310.00	3721609.00	0.01558
483710.00	3721609.00	0.01165	
	483810.00	3721609.00	0.00228
483910.00	3721609.00	0.00101	
	484010.00	3721609.00	0.00060
483010.00	3721709.00	0.00076	
	483110.00	3721709.00	0.00127
483210.00	3721709.00	0.00242	



483010.00	3721909.00	0.00072	
	483110.00	3721909.00	0.00101
483210.00	3721909.00	0.00142	
	483310.00	3721909.00	0.00188
483410.00	3721909.00	0.00219	
	483510.00	3721909.00	0.00224
483610.00	3721909.00	0.00201	
	483710.00	3721909.00	0.00166
483810.00	3721909.00	0.00112	
	483910.00	3721909.00	0.00077
484010.00	3721909.00	0.00054	
	483010.00	3722009.00	0.00066
483110.00	3722009.00	0.00087	
	483210.00	3722009.00	0.00112
483310.00	3722009.00	0.00137	
	483410.00	3722009.00	0.00152
483510.00	3722009.00	0.00151	
	483610.00	3722009.00	0.00138
483710.00	3722009.00	0.00124	
	483810.00	3722009.00	0.00089
483910.00	3722009.00	0.00066	
	484010.00	3722009.00	0.00050



483110.00	3721209.00	0.00101	
	483210.00	3721209.00	0.00149
483310.00	3721209.00	0.00221	
	483410.00	3721209.00	0.00368
483510.00	3721209.00	0.00514	
	483610.00	3721209.00	0.00570
483710.00	3721209.00	0.00547	
	483810.00	3721209.00	0.00413
483910.00	3721209.00	0.00261	
	484010.00	3721209.00	0.00156
483010.00	3721309.00	0.00074	
	483110.00	3721309.00	0.00122
483210.00	3721309.00	0.00212	
	483310.00	3721309.00	0.00427
483410.00	3721309.00	0.00811	
	483510.00	3721309.00	0.01047
483610.00	3721309.00	0.01072	
	483710.00	3721309.00	0.00896
483810.00	3721309.00	0.00506	
	483910.00	3721309.00	0.00248
484010.00	3721309.00	0.00130	
	483010.00	3721409.00	0.00078
483110.00	3721409.00	0.00131	
	483210.00	3721409.00	0.00273
483310.00	3721409.00	0.01173	
	483410.00	3721409.00	0.02862
483510.00	3721409.00	0.03133	
	483610.00	3721409.00	0.03100
483710.00	3721409.00	0.01985	
	483810.00	3721409.00	0.00494
483910.00	3721409.00	0.00191	
	484010.00	3721409.00	0.00096
483010.00	3721509.00	0.00076	
	483110.00	3721509.00	0.00131
483210.00	3721509.00	0.00310	
	483310.00	3721509.00	0.02051
483710.00	3721509.00	0.02339	
	483810.00	3721509.00	0.00345
483910.00	3721509.00	0.00128	
	484010.00	3721509.00	0.00069
483010.00	3721609.00	0.00076	
	483110.00	3721609.00	0.00131
483210.00	3721609.00	0.00291	
	483310.00	3721609.00	0.01558
483710.00	3721609.00	0.01153	
	483810.00	3721609.00	0.00225
483910.00	3721609.00	0.00099	
	484010.00	3721609.00	0.00058
483010.00	3721709.00	0.00076	
	483110.00	3721709.00	0.00127
483210.00	3721709.00	0.00241	



484010.00	3721909.00	0.00052	
	483010.00	3722009.00	0.00066
483110.00	3722009.00	0.00087	
	483210.00	3722009.00	0.00112
483310.00	3722009.00	0.00136	
	483410.00	3722009.00	0.00152
483510.00	3722009.00	0.00150	
	483610.00	3722009.00	0.00136
483710.00	3722009.00	0.00111	
	483810.00	3722009.00	0.00086
483910.00	3722009.00	0.00064	
	484010.00	3722009.00	0.00048



	483310.00	3721109.00	0.00000
483410.00	3721109.00	0.00000	
	483510.00	3721109.00	0.00000
483610.00	3721109.00	0.00000	
	483710.00	3721109.00	0.00000
483810.00	3721109.00	0.00001	
	483910.00	3721109.00	0.00001
484010.00	3721109.00	0.00002	
	483010.00	3721209.00	0.00000
483110.00	3721209.00	0.00000	
	483210.00	3721209.00	0.00000
483310.00	3721209.00	0.00000	
	483410.00	3721209.00	0.00000
483510.00	3721209.00	0.00000	
	483610.00	3721209.00	0.00000
483710.00	3721209.00	0.00001	
	483810.00	3721209.00	0.00001
483910.00	3721209.00	0.00001	
	484010.00	3721209.00	0.00002
483010.00	3721309.00	0.00000	
	483110.00	3721309.00	0.00000
483210.00	3721309.00	0.00000	
	483310.00	3721309.00	0.00000
483410.00	3721309.00	0.00000	
	483510.00	3721309.00	0.00000
483610.00	3721309.00	0.00001	
	483710.00	3721309.00	0.00001
483810.00	3721309.00	0.00001	
	483910.00	3721309.00	0.00001
484010.00	3721309.00	0.00002	
	483010.00	3721409.00	0.00000
483110.00	3721409.00	0.00000	
	483210.00	3721409.00	0.00000
483310.00	3721409.00	0.00000	
	483410.00	3721409.00	0.00000
483510.00	3721409.00	0.00000	
	483610.00	3721409.00	0.00001
483710.00	3721409.00	0.00001	
	483810.00	3721409.00	0.00002
483910.00	3721409.00	0.00002	
	484010.00	3721409.00	0.00002
483010.00	3721509.00	0.00000	
	483110.00	3721509.00	0.00000
483210.00	3721509.00	0.00000	
	483310.00	3721509.00	0.00000
483710.00	3721509.00	0.00006	
	483810.00	3721509.00	0.00002
483910.00	3721509.00	0.00002	
	484010.00	3721509.00	0.00002
483010.00	3721609.00	0.00000	
	483110.00	3721609.00	0.00000
483210.00	3721609.00	0.00000	

	483310.00	3721609.00	0.00000
483710.00	3721609.00	0.00012	
	483810.00	3721609.00	0.00003
483910.00	3721609.00	0.00002	
	484010.00	3721609.00	0.00002
483010.00	3721709.00	0.00000	
	483110.00	3721709.00	0.00000
483210.00	3721709.00	0.00000	

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 65

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: Y2\_OFF \*\*\*  
INCLUDING SOURCE(S):

```

A0000026 , A0000027 , A0000028 , A0000029 ,
A0000030 ,
          A0000031 , A0000032 , A0000033 ,
A0000034 , A0000035 , A0000036 , A0000037 ,
A0000038 ,
          A0000039 , A0000040 , A0000041 ,
A0000042 , A0000043 , A0000044 , A0000045 ,
A0000046 ,
          A0000047 , A0000048 , A0000049 ,
A0000050 ,

```

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN \*\*

X-COORD (M)	Y-COORD (M)	CONC
483310.00	3721709.00	0.00000
483410.00	3721709.00	0.00000
483510.00	3721709.00	0.00001
483610.00	3721709.00	0.00002
483710.00	3721709.00	0.00013
483810.00	3721709.00	0.00003
483910.00	3721709.00	0.00002
484010.00	3721709.00	0.00002
483010.00	3721809.00	0.00000
483110.00	3721809.00	0.00000
483210.00	3721809.00	0.00000
483310.00	3721809.00	0.00000
483410.00	3721809.00	0.00000
483510.00	3721809.00	0.00001
483610.00	3721809.00	0.00002
483710.00	3721809.00	0.00013
483810.00	3721809.00	0.00003
483910.00	3721809.00	0.00002
484010.00	3721809.00	0.00002
483010.00	3721909.00	0.00000

	483110.00	3721909.00	0.00000
483210.00	3721909.00	0.00000	
	483310.00	3721909.00	0.00000
483410.00	3721909.00	0.00001	
	483510.00	3721909.00	0.00001
483610.00	3721909.00	0.00002	
	483710.00	3721909.00	0.00012
483810.00	3721909.00	0.00003	
	483910.00	3721909.00	0.00002
484010.00	3721909.00	0.00002	
	483010.00	3722009.00	0.00000
483110.00	3722009.00	0.00000	
	483210.00	3722009.00	0.00000
483310.00	3722009.00	0.00000	
	483410.00	3722009.00	0.00001
483510.00	3722009.00	0.00001	
	483610.00	3722009.00	0.00002
483710.00	3722009.00	0.00013	
	483810.00	3722009.00	0.00003
483910.00	3722009.00	0.00002	
	484010.00	3722009.00	0.00003

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 66

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

```

*** THE PERIOD ( 43824 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: OPS_ALL ***
INCLUDING SOURCE(S):
STCK01 , STCK02 , STCK03 , STCK04 ,
STCK05 ,
          STCK06 , STCK07 , STCK08 ,
STCK09 , STCK10 , STCK11 , STCK12 ,
STCK13 ,
          STCK14 , STCK15 , STCK16 ,
STCK17 , STCK18 , STCK19 , STCK20 ,
STCK21 ,
          STCK22 , VOL01 , VOL02 ,
VOL03 , VOL04 , VOL05 ,
VOL06 , . . . ,

```

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN \*\*

X-COORD (M)	Y-COORD (M)	CONC
483654.71	3721301.62	0.00076
483654.99	3721256.45	0.00056
483624.73	3721170.69	0.00036
483571.29	3721698.97	0.00057
483348.55	3721685.43	0.00032
483230.98	3721502.86	0.00021
483010.00	3721009.00	0.00005
483110.00	3721009.00	0.00006
483210.00	3721009.00	0.00008
483310.00	3721009.00	0.00010
483410.00	3721009.00	0.00013
483510.00	3721009.00	0.00016
483610.00	3721009.00	0.00020
483710.00	3721009.00	0.00023
483810.00	3721009.00	0.00026
483910.00	3721009.00	0.00029
484010.00	3721009.00	0.00044
483010.00	3721109.00	0.00006
483110.00	3721109.00	0.00008

483210.00	3721109.00	0.00010	
	483310.00	3721109.00	0.00012
483410.00	3721109.00	0.00017	
	483510.00	3721109.00	0.00022
483610.00	3721109.00	0.00028	
	483710.00	3721109.00	0.00032
483810.00	3721109.00	0.00034	
	483910.00	3721109.00	0.00036
484010.00	3721109.00	0.00050	
	483010.00	3721209.00	0.00006
483110.00	3721209.00	0.00009	
	483210.00	3721209.00	0.00012
483310.00	3721209.00	0.00016	
	483410.00	3721209.00	0.00023
483510.00	3721209.00	0.00033	
	483610.00	3721209.00	0.00041
483710.00	3721209.00	0.00047	
	483810.00	3721209.00	0.00046
483910.00	3721209.00	0.00042	
	484010.00	3721209.00	0.00055
483010.00	3721309.00	0.00007	
	483110.00	3721309.00	0.00011
483210.00	3721309.00	0.00015	
	483310.00	3721309.00	0.00023
483410.00	3721309.00	0.00036	
	483510.00	3721309.00	0.00053
483610.00	3721309.00	0.00071	
	483710.00	3721309.00	0.00085
483810.00	3721309.00	0.00062	
	483910.00	3721309.00	0.00047
484010.00	3721309.00	0.00058	
	483010.00	3721409.00	0.00008
483110.00	3721409.00	0.00011	
	483210.00	3721409.00	0.00017
483310.00	3721409.00	0.00032	
	483410.00	3721409.00	0.00066
483510.00	3721409.00	0.00098	
	483610.00	3721409.00	0.00246
483710.00	3721409.00	0.00295	
	483810.00	3721409.00	0.00077
483910.00	3721409.00	0.00051	
	484010.00	3721409.00	0.00059
483010.00	3721509.00	0.00009	
	483110.00	3721509.00	0.00012
483210.00	3721509.00	0.00019	
	483310.00	3721509.00	0.00042
483710.00	3721509.00	0.00282	
	483810.00	3721509.00	0.00079
483910.00	3721509.00	0.00052	
	484010.00	3721509.00	0.00060
483010.00	3721609.00	0.00009	
	483110.00	3721609.00	0.00013

483210.00	3721609.00	0.00020	
	483310.00	3721609.00	0.00038
483710.00	3721609.00	0.00265	
	483810.00	3721609.00	0.00077
483910.00	3721609.00	0.00052	
	484010.00	3721609.00	0.00060
483010.00	3721709.00	0.00009	
	483110.00	3721709.00	0.00013
483210.00	3721709.00	0.00019	



483010.00	3721909.00	0.00009	
	483110.00	3721909.00	0.00012
483210.00	3721909.00	0.00015	
	483310.00	3721909.00	0.00018
483410.00	3721909.00	0.00023	
	483510.00	3721909.00	0.00031
483610.00	3721909.00	0.00052	
	483710.00	3721909.00	0.00239
483810.00	3721909.00	0.00070	
	483910.00	3721909.00	0.00050
484010.00	3721909.00	0.00060	
	483010.00	3722009.00	0.00009
483110.00	3722009.00	0.00011	
	483210.00	3722009.00	0.00013
483310.00	3722009.00	0.00016	
	483410.00	3722009.00	0.00021
483510.00	3722009.00	0.00029	
	483610.00	3722009.00	0.00050
483710.00	3722009.00	0.00238	
	483810.00	3722009.00	0.00069
483910.00	3722009.00	0.00049	
	484010.00	3722009.00	0.00061

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 68

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

```

*** THE PERIOD ( 43824 HRS) AVERAGE
CONCENTRATION VALUES FOR SOURCE GROUP: OPS_ON ***
INCLUDING SOURCE(S):
STCK01 , STCK02 , STCK03 , STCK04 ,
STCK05 ,
      STCK06 , STCK07 , STCK08 ,
STCK09 , STCK10 , STCK11 , STCK12 ,
STCK13 ,
      STCK14 , STCK15 , STCK16 ,
STCK17 , STCK18 , STCK19 , STCK20 ,
STCK21 ,
      STCK22 , VOL01 , VOL02 ,
VOL03 , VOL04 , VOL05 ,
VOL06 , . . . ,

```

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN \*\*

X-COORD (M)	Y-COORD (M)	CONC
483654.71	3721301.62	0.00059
483654.99	3721256.45	0.00041
483624.73	3721170.69	0.00026
483571.29	3721698.97	0.00030
483348.55	3721685.43	0.00024
483230.98	3721502.86	0.00016
483010.00	3721009.00	0.00003
483110.00	3721009.00	0.00004
483210.00	3721009.00	0.00005
483310.00	3721009.00	0.00006
483410.00	3721009.00	0.00008
483510.00	3721009.00	0.00011
483610.00	3721009.00	0.00013
483710.00	3721009.00	0.00014
483810.00	3721009.00	0.00013
483910.00	3721009.00	0.00010
484010.00	3721009.00	0.00008
483010.00	3721109.00	0.00004
483110.00	3721109.00	0.00005

483210.00	3721109.00	0.00006	
	483310.00	3721109.00	0.00008
483410.00	3721109.00	0.00012	
	483510.00	3721109.00	0.00016
483610.00	3721109.00	0.00019	
	483710.00	3721109.00	0.00020
483810.00	3721109.00	0.00018	
	483910.00	3721109.00	0.00013
484010.00	3721109.00	0.00008	
	483010.00	3721209.00	0.00004
483110.00	3721209.00	0.00006	
	483210.00	3721209.00	0.00009
483310.00	3721209.00	0.00012	
	483410.00	3721209.00	0.00018
483510.00	3721209.00	0.00026	
	483610.00	3721209.00	0.00030
483710.00	3721209.00	0.00031	
	483810.00	3721209.00	0.00024
483910.00	3721209.00	0.00014	
	484010.00	3721209.00	0.00009
483010.00	3721309.00	0.00004	
	483110.00	3721309.00	0.00007
483210.00	3721309.00	0.00011	
	483310.00	3721309.00	0.00018
483410.00	3721309.00	0.00029	
	483510.00	3721309.00	0.00044
483610.00	3721309.00	0.00058	
	483710.00	3721309.00	0.00059
483810.00	3721309.00	0.00030	
	483910.00	3721309.00	0.00015
484010.00	3721309.00	0.00009	
	483010.00	3721409.00	0.00005
483110.00	3721409.00	0.00008	
	483210.00	3721409.00	0.00013
483310.00	3721409.00	0.00027	
	483410.00	3721409.00	0.00059
483510.00	3721409.00	0.00087	
	483610.00	3721409.00	0.00226
483710.00	3721409.00	0.00192	
	483810.00	3721409.00	0.00031
483910.00	3721409.00	0.00014	
	484010.00	3721409.00	0.00009
483010.00	3721509.00	0.00005	
	483110.00	3721509.00	0.00008
483210.00	3721509.00	0.00014	
	483310.00	3721509.00	0.00036
483710.00	3721509.00	0.00072	
	483810.00	3721509.00	0.00026
483910.00	3721509.00	0.00013	
	484010.00	3721509.00	0.00008
483010.00	3721609.00	0.00006	
	483110.00	3721609.00	0.00009

483210.00	3721609.00	0.00014	
	483310.00	3721609.00	0.00031
483710.00	3721609.00	0.00037	
	483810.00	3721609.00	0.00019
483910.00	3721609.00	0.00011	
	484010.00	3721609.00	0.00008
483010.00	3721709.00	0.00005	
	483110.00	3721709.00	0.00008
483210.00	3721709.00	0.00013	



483010.00	3721909.00	0.00005	
	483110.00	3721909.00	0.00006
483210.00	3721909.00	0.00008	
	483310.00	3721909.00	0.00009
483410.00	3721909.00	0.00010	
	483510.00	3721909.00	0.00010
483610.00	3721909.00	0.00010	
	483710.00	3721909.00	0.00009
483810.00	3721909.00	0.00008	
	483910.00	3721909.00	0.00006
484010.00	3721909.00	0.00005	
	483010.00	3722009.00	0.00004
483110.00	3722009.00	0.00005	
	483210.00	3722009.00	0.00006
483310.00	3722009.00	0.00007	
	483410.00	3722009.00	0.00007
483510.00	3722009.00	0.00007	
	483610.00	3722009.00	0.00007
483710.00	3722009.00	0.00006	
	483810.00	3722009.00	0.00006
483910.00	3722009.00	0.00005	
	484010.00	3722009.00	0.00004

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 70

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: OPS\_OFF \*\*\*  
INCLUDING SOURCE(S):

```

A0000051 , A0000052 , A0000053 , A0000054 ,
A0000055 ,
          A0000056 , A0000057 , A0000058 ,
A0000076 , A0000077 , A0000078 , A0000101 ,
A0000102 ,
          A0000103 , A0000104 , A0000105 ,
A0000106 , A0000107 , A0000108 , A0000109 ,
A0000110 ,
          A0000111 , A0000112 , A0000113 ,
A0000114 ,

```

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN \*\*

X-COORD (M)	Y-COORD (M)	CONC
483654.71	3721301.62	0.00017
483654.99	3721256.45	0.00014
483624.73	3721170.69	0.00010
483571.29	3721698.97	0.00027
483348.55	3721685.43	0.00008
483230.98	3721502.86	0.00005
483010.00	3721009.00	0.00002
483110.00	3721009.00	0.00003
483210.00	3721009.00	0.00003
483310.00	3721009.00	0.00004
483410.00	3721009.00	0.00004
483510.00	3721009.00	0.00006
483610.00	3721009.00	0.00007
483710.00	3721009.00	0.00009
483810.00	3721009.00	0.00013
483910.00	3721009.00	0.00019
484010.00	3721009.00	0.00036
483010.00	3721109.00	0.00002
483110.00	3721109.00	0.00003
483210.00	3721109.00	0.00003

	483310.00	3721109.00	0.00004
483410.00	3721109.00	0.00005	
	483510.00	3721109.00	0.00006
483610.00	3721109.00	0.00008	
	483710.00	3721109.00	0.00012
483810.00	3721109.00	0.00017	
	483910.00	3721109.00	0.00023
484010.00	3721109.00	0.00042	
	483010.00	3721209.00	0.00003
483110.00	3721209.00	0.00003	
	483210.00	3721209.00	0.00004
483310.00	3721209.00	0.00004	
	483410.00	3721209.00	0.00006
483510.00	3721209.00	0.00008	
	483610.00	3721209.00	0.00010
483710.00	3721209.00	0.00016	
	483810.00	3721209.00	0.00022
483910.00	3721209.00	0.00028	
	484010.00	3721209.00	0.00046
483010.00	3721309.00	0.00003	
	483110.00	3721309.00	0.00003
483210.00	3721309.00	0.00004	
	483310.00	3721309.00	0.00005
483410.00	3721309.00	0.00007	
	483510.00	3721309.00	0.00009
483610.00	3721309.00	0.00014	
	483710.00	3721309.00	0.00026
483810.00	3721309.00	0.00032	
	483910.00	3721309.00	0.00033
484010.00	3721309.00	0.00049	
	483010.00	3721409.00	0.00003
483110.00	3721409.00	0.00004	
	483210.00	3721409.00	0.00004
483310.00	3721409.00	0.00006	
	483410.00	3721409.00	0.00007
483510.00	3721409.00	0.00011	
	483610.00	3721409.00	0.00019
483710.00	3721409.00	0.00103	
	483810.00	3721409.00	0.00045
483910.00	3721409.00	0.00036	
	484010.00	3721409.00	0.00050
483010.00	3721509.00	0.00003	
	483110.00	3721509.00	0.00004
483210.00	3721509.00	0.00005	
	483310.00	3721509.00	0.00006
483710.00	3721509.00	0.00210	
	483810.00	3721509.00	0.00053
483910.00	3721509.00	0.00038	
	484010.00	3721509.00	0.00052
483010.00	3721609.00	0.00003	
	483110.00	3721609.00	0.00004
483210.00	3721609.00	0.00005	

	483310.00	3721609.00	0.00007
483710.00	3721609.00	0.00229	
	483810.00	3721609.00	0.00058
483910.00	3721609.00	0.00040	
	484010.00	3721609.00	0.00053
483010.00	3721709.00	0.00004	
	483110.00	3721709.00	0.00005
483210.00	3721709.00	0.00006	

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 71

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: OPS\_OFF \*\*\*  
INCLUDING SOURCE(S):

```

A0000051 , A0000052 , A0000053 , A0000054 ,
A0000055 ,
          A0000056 , A0000057 , A0000058 ,
A0000076 , A0000077 , A0000078 , A0000101 ,
A0000102 ,
          A0000103 , A0000104 , A0000105 ,
A0000106 , A0000107 , A0000108 , A0000109 ,
A0000110 ,
          A0000111 , A0000112 , A0000113 ,
A0000114 ,

```

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN \*\*

X-COORD (M)	Y-COORD (M)	CONC
483310.00	3721709.00	0.00008
483410.00	3721709.00	0.00011
483510.00	3721709.00	0.00018
483610.00	3721709.00	0.00038
483710.00	3721709.00	0.00239
483810.00	3721709.00	0.00060
483910.00	3721709.00	0.00042
484010.00	3721709.00	0.00054
483010.00	3721809.00	0.00004
483110.00	3721809.00	0.00005
483210.00	3721809.00	0.00006
483310.00	3721809.00	0.00008
483410.00	3721809.00	0.00012
483510.00	3721809.00	0.00020
483610.00	3721809.00	0.00040
483710.00	3721809.00	0.00249
483810.00	3721809.00	0.00061
483910.00	3721809.00	0.00043
484010.00	3721809.00	0.00054
483010.00	3721909.00	0.00004

	483110.00	3721909.00	0.00005
483210.00	3721909.00	0.00007	
	483310.00	3721909.00	0.00009
483410.00	3721909.00	0.00013	
	483510.00	3721909.00	0.00021
483610.00	3721909.00	0.00042	
	483710.00	3721909.00	0.00230
483810.00	3721909.00	0.00062	
	483910.00	3721909.00	0.00043
484010.00	3721909.00	0.00055	
	483010.00	3722009.00	0.00004
483110.00	3722009.00	0.00006	
	483210.00	3722009.00	0.00007
483310.00	3722009.00	0.00009	
	483410.00	3722009.00	0.00014
483510.00	3722009.00	0.00022	
	483610.00	3722009.00	0.00043
483710.00	3722009.00	0.00231	
	483810.00	3722009.00	0.00063
483910.00	3722009.00	0.00044	
	484010.00	3722009.00	0.00057

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 72

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: OPS\_IDLE \*\*\*  
INCLUDING SOURCE(S):

```

STCK01      , STCK02      , STCK03      , STCK04      ,
STCK05      ,
              STCK06      , STCK07      , STCK08      ,
STCK09      , STCK10      , STCK11      , STCK12      ,
STCK13      ,
              STCK14      , STCK15      , STCK16      ,
STCK17      , STCK18      , STCK19      , STCK20      ,
STCK21      ,
              STCK22      ,

```

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN \*\*

X-COORD (M)	Y-COORD (M)	CONC
483654.71	3721301.62	0.00021
483654.99	3721256.45	0.00017
483624.73	3721170.69	0.00013
483571.29	3721698.97	0.00012
483348.55	3721685.43	0.00013
483230.98	3721502.86	0.00008
483010.00	3721009.00	0.00001
483110.00	3721009.00	0.00002
483210.00	3721009.00	0.00002
483310.00	3721009.00	0.00003
483410.00	3721009.00	0.00004
483510.00	3721009.00	0.00005
483610.00	3721009.00	0.00007
483710.00	3721009.00	0.00007
483810.00	3721009.00	0.00007
483910.00	3721009.00	0.00005
484010.00	3721009.00	0.00004
483010.00	3721109.00	0.00002
483110.00	3721109.00	0.00002
483210.00	3721109.00	0.00003
483310.00	3721109.00	0.00004

483410.00	3721109.00	0.00006	
	483510.00	3721109.00	0.00008
483610.00	3721109.00	0.00010	
	483710.00	3721109.00	0.00010
483810.00	3721109.00	0.00009	
	483910.00	3721109.00	0.00006
484010.00	3721109.00	0.00004	
	483010.00	3721209.00	0.00002
483110.00	3721209.00	0.00003	
	483210.00	3721209.00	0.00004
483310.00	3721209.00	0.00006	
	483410.00	3721209.00	0.00009
483510.00	3721209.00	0.00013	
	483610.00	3721209.00	0.00015
483710.00	3721209.00	0.00014	
	483810.00	3721209.00	0.00011
483910.00	3721209.00	0.00006	
	484010.00	3721209.00	0.00003
483010.00	3721309.00	0.00002	
	483110.00	3721309.00	0.00003
483210.00	3721309.00	0.00005	
	483310.00	3721309.00	0.00009
483410.00	3721309.00	0.00015	
	483510.00	3721309.00	0.00021
483610.00	3721309.00	0.00022	
	483710.00	3721309.00	0.00020
483810.00	3721309.00	0.00010	
	483910.00	3721309.00	0.00005
484010.00	3721309.00	0.00003	
	483010.00	3721409.00	0.00002
483110.00	3721409.00	0.00004	
	483210.00	3721409.00	0.00006
483310.00	3721409.00	0.00013	
	483410.00	3721409.00	0.00031
483510.00	3721409.00	0.00039	
	483610.00	3721409.00	0.00042
483710.00	3721409.00	0.00022	
	483810.00	3721409.00	0.00008
483910.00	3721409.00	0.00004	
	484010.00	3721409.00	0.00003
483010.00	3721509.00	0.00003	
	483110.00	3721509.00	0.00004
483210.00	3721509.00	0.00007	
	483310.00	3721509.00	0.00019
483710.00	3721509.00	0.00017	
	483810.00	3721509.00	0.00006
483910.00	3721509.00	0.00004	
	484010.00	3721509.00	0.00002
483010.00	3721609.00	0.00003	
	483110.00	3721609.00	0.00004
483210.00	3721609.00	0.00008	
	483310.00	3721609.00	0.00018

483710.00	3721609.00	0.00012	
	483810.00	3721609.00	0.00005
483910.00	3721609.00	0.00003	
	484010.00	3721609.00	0.00002
483010.00	3721709.00	0.00003	
	483110.00	3721709.00	0.00004
483210.00	3721709.00	0.00008	

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 73

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE PERIOD ( 43824 HRS) AVERAGE  
CONCENTRATION VALUES FOR SOURCE GROUP: OPS\_IDLE \*\*\*  
INCLUDING SOURCE(S):

```

STCK01      , STCK02      , STCK03      , STCK04      ,
STCK05      ,
              STCK06      , STCK07      , STCK08      ,
STCK09      , STCK10      , STCK11      , STCK12      ,
STCK13      ,
              STCK14      , STCK15      , STCK16      ,
STCK17      , STCK18      , STCK19      , STCK20      ,
STCK21      ,
              STCK22      ,

```

\*\*\* DISCRETE

CARTESIAN RECEPTOR POINTS \*\*\*

MICROGRAMS/M\*\*3 \*\* CONC OF PM\_10 IN \*\*

X-COORD (M)	Y-COORD (M)	CONC
483310.00	3721709.00	0.00011
483410.00	3721709.00	0.00011
483510.00	3721709.00	0.00011
483610.00	3721709.00	0.00011
483710.00	3721709.00	0.00008
483810.00	3721709.00	0.00005
483910.00	3721709.00	0.00003
484010.00	3721709.00	0.00002
483010.00	3721809.00	0.00003
483110.00	3721809.00	0.00004
483210.00	3721809.00	0.00006
483310.00	3721809.00	0.00007
483410.00	3721809.00	0.00007
483510.00	3721809.00	0.00007
483610.00	3721809.00	0.00007
483710.00	3721809.00	0.00006
483810.00	3721809.00	0.00004
483910.00	3721809.00	0.00003
484010.00	3721809.00	0.00002
483010.00	3721909.00	0.00003
483110.00	3721909.00	0.00004

483210.00	3721909.00	0.00005	
	483310.00	3721909.00	0.00005
483410.00	3721909.00	0.00005	
	483510.00	3721909.00	0.00005
483610.00	3721909.00	0.00005	
	483710.00	3721909.00	0.00004
483810.00	3721909.00	0.00003	
	483910.00	3721909.00	0.00002
484010.00	3721909.00	0.00002	
	483010.00	3722009.00	0.00002
483110.00	3722009.00	0.00003	
	483210.00	3722009.00	0.00003
483310.00	3722009.00	0.00004	
	483410.00	3722009.00	0.00004
483510.00	3722009.00	0.00003	
	483610.00	3722009.00	0.00003
483710.00	3722009.00	0.00003	
	483810.00	3722009.00	0.00002
483910.00	3722009.00	0.00002	
	484010.00	3722009.00	0.00001



483210.00	3721109.00	0.00003	
	483310.00	3721109.00	0.00004
483410.00	3721109.00	0.00006	
	483510.00	3721109.00	0.00008
483610.00	3721109.00	0.00009	
	483710.00	3721109.00	0.00010
483810.00	3721109.00	0.00009	
	483910.00	3721109.00	0.00007
484010.00	3721109.00	0.00005	
	483010.00	3721209.00	0.00002
483110.00	3721209.00	0.00003	
	483210.00	3721209.00	0.00004
483310.00	3721209.00	0.00006	
	483410.00	3721209.00	0.00009
483510.00	3721209.00	0.00013	
	483610.00	3721209.00	0.00016
483710.00	3721209.00	0.00017	
	483810.00	3721209.00	0.00013
483910.00	3721209.00	0.00008	
	484010.00	3721209.00	0.00005
483010.00	3721309.00	0.00002	
	483110.00	3721309.00	0.00004
483210.00	3721309.00	0.00006	
	483310.00	3721309.00	0.00009
483410.00	3721309.00	0.00015	
	483510.00	3721309.00	0.00023
483610.00	3721309.00	0.00036	
	483710.00	3721309.00	0.00039
483810.00	3721309.00	0.00019	
	483910.00	3721309.00	0.00009
484010.00	3721309.00	0.00006	
	483010.00	3721409.00	0.00003
483110.00	3721409.00	0.00004	
	483210.00	3721409.00	0.00007
483310.00	3721409.00	0.00013	
	483410.00	3721409.00	0.00027
483510.00	3721409.00	0.00049	
	483610.00	3721409.00	0.00184
483710.00	3721409.00	0.00170	
	483810.00	3721409.00	0.00023
483910.00	3721409.00	0.00010	
	484010.00	3721409.00	0.00006
483010.00	3721509.00	0.00003	
	483110.00	3721509.00	0.00004
483210.00	3721509.00	0.00008	
	483310.00	3721509.00	0.00017
483710.00	3721509.00	0.00055	
	483810.00	3721509.00	0.00020
483910.00	3721509.00	0.00010	
	484010.00	3721509.00	0.00006
483010.00	3721609.00	0.00003	
	483110.00	3721609.00	0.00004

483210.00	3721609.00	0.00007	
	483310.00	3721609.00	0.00013
483710.00	3721609.00	0.00025	
	483810.00	3721609.00	0.00014
483910.00	3721609.00	0.00008	
	484010.00	3721609.00	0.00005
483010.00	3721709.00	0.00003	
	483110.00	3721709.00	0.00004
483210.00	3721709.00	0.00006	



483010.00	3721909.00	0.00002	
	483110.00	3721909.00	0.00003
483210.00	3721909.00	0.00004	
	483310.00	3721909.00	0.00004
483410.00	3721909.00	0.00005	
	483510.00	3721909.00	0.00006
483610.00	3721909.00	0.00006	
	483710.00	3721909.00	0.00005
483810.00	3721909.00	0.00005	
	483910.00	3721909.00	0.00004
484010.00	3721909.00	0.00003	
	483010.00	3722009.00	0.00002
483110.00	3722009.00	0.00002	
	483210.00	3722009.00	0.00003
483310.00	3722009.00	0.00003	
	483410.00	3722009.00	0.00004
483510.00	3722009.00	0.00004	
	483610.00	3722009.00	0.00004
483710.00	3722009.00	0.00004	
	483810.00	3722009.00	0.00003
483910.00	3722009.00	0.00003	
	484010.00	3722009.00	0.00003

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 76

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF  
MAXIMUM PERIOD ( 43824 HRS) RESULTS \*\*\*

MICROGRAMS/M\*\*3                    \*\* CONC OF PM\_10        IN  
   \*\*

NETWORK		AVERAGE CONC			
GROUP ID					
RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF	TYPE	GRID-ID	
-----					
Y1_ALL	1ST HIGHEST VALUE IS	0.10716	AT	( 483610.00,	
3721409.00,	480.57, 653.48,	0.00)	DC		
	2ND HIGHEST VALUE IS	0.10451	AT	( 483510.00,	
3721409.00,	480.56, 678.22,	0.00)	DC		
	3RD HIGHEST VALUE IS	0.10439	AT	( 483710.00,	
3721509.00,	477.64, 647.12,	0.00)	DC		
	4TH HIGHEST VALUE IS	0.09435	AT	( 483410.00,	
3721409.00,	482.03, 678.22,	0.00)	DC		
	5TH HIGHEST VALUE IS	0.07304	AT	( 483710.00,	
3721409.00,	479.86, 647.12,	0.00)	DC		
	6TH HIGHEST VALUE IS	0.06742	AT	( 483310.00,	
3721509.00,	481.19, 678.22,	0.00)	DC		
	7TH HIGHEST VALUE IS	0.05376	AT	( 483710.00,	
3721609.00,	475.81, 475.81,	0.00)	DC		
	8TH HIGHEST VALUE IS	0.05132	AT	( 483310.00,	
3721609.00,	479.60, 678.22,	0.00)	DC		
	9TH HIGHEST VALUE IS	0.03878	AT	( 483310.00,	
3721409.00,	482.06, 678.22,	0.00)	DC		
	10TH HIGHEST VALUE IS	0.03728	AT	( 483610.00,	
3721309.00,	481.85, 678.13,	0.00)	DC		
Y1_ON	1ST HIGHEST VALUE IS	0.10715	AT	( 483610.00,	
3721409.00,	480.57, 653.48,	0.00)	DC		
	2ND HIGHEST VALUE IS	0.10450	AT	( 483510.00,	
3721409.00,	480.56, 678.22,	0.00)	DC		
	3RD HIGHEST VALUE IS	0.10429	AT	( 483710.00,	
3721509.00,	477.64, 647.12,	0.00)	DC		
	4TH HIGHEST VALUE IS	0.09434	AT	( 483410.00,	
3721409.00,	482.03, 678.22,	0.00)	DC		
	5TH HIGHEST VALUE IS	0.07302	AT	( 483710.00,	

3721409.00,	479.86,	647.12,	0.00)	DC	
	6TH HIGHEST VALUE IS		0.06741	AT (	483310.00,
3721509.00,	481.19,	678.22,	0.00)	DC	
	7TH HIGHEST VALUE IS		0.05358	AT (	483710.00,
3721609.00,	475.81,	475.81,	0.00)	DC	
	8TH HIGHEST VALUE IS		0.05132	AT (	483310.00,
3721609.00,	479.60,	678.22,	0.00)	DC	
	9TH HIGHEST VALUE IS		0.03878	AT (	483310.00,
3721409.00,	482.06,	678.22,	0.00)	DC	
	10TH HIGHEST VALUE IS		0.03728	AT (	483610.00,
3721309.00,	481.85,	678.13,	0.00)	DC	
Y1_OFF	1ST HIGHEST VALUE IS		0.00020	AT (	483710.00,
3721809.00,	474.89,	474.89,	0.00)	DC	
	2ND HIGHEST VALUE IS		0.00019	AT (	483710.00,
3722009.00,	470.37,	470.37,	0.00)	DC	
	3RD HIGHEST VALUE IS		0.00019	AT (	483710.00,
3721709.00,	475.04,	475.04,	0.00)	DC	
	4TH HIGHEST VALUE IS		0.00018	AT (	483710.00,
3721909.00,	472.09,	472.09,	0.00)	DC	
	5TH HIGHEST VALUE IS		0.00018	AT (	483710.00,
3721609.00,	475.81,	475.81,	0.00)	DC	
	6TH HIGHEST VALUE IS		0.00010	AT (	483710.00,
3721509.00,	477.64,	647.12,	0.00)	DC	
	7TH HIGHEST VALUE IS		0.00005	AT (	483810.00,
3722009.00,	469.90,	469.90,	0.00)	DC	
	8TH HIGHEST VALUE IS		0.00005	AT (	483810.00,
3721909.00,	471.97,	471.97,	0.00)	DC	
	9TH HIGHEST VALUE IS		0.00004	AT (	483810.00,
3721809.00,	472.26,	472.26,	0.00)	DC	
	10TH HIGHEST VALUE IS		0.00004	AT (	483810.00,
3721709.00,	472.72,	472.72,	0.00)	DC	
Y2_ALL	1ST HIGHEST VALUE IS		0.03134	AT (	483510.00,
3721409.00,	480.56,	678.22,	0.00)	DC	
	2ND HIGHEST VALUE IS		0.03101	AT (	483610.00,
3721409.00,	480.57,	653.48,	0.00)	DC	
	3RD HIGHEST VALUE IS		0.02863	AT (	483410.00,
3721409.00,	482.03,	678.22,	0.00)	DC	
	4TH HIGHEST VALUE IS		0.02346	AT (	483710.00,
3721509.00,	477.64,	647.12,	0.00)	DC	
	5TH HIGHEST VALUE IS		0.02051	AT (	483310.00,
3721509.00,	481.19,	678.22,	0.00)	DC	
	6TH HIGHEST VALUE IS		0.01987	AT (	483710.00,
3721409.00,	479.86,	647.12,	0.00)	DC	
	7TH HIGHEST VALUE IS		0.01558	AT (	483310.00,
3721609.00,	479.60,	678.22,	0.00)	DC	
	8TH HIGHEST VALUE IS		0.01173	AT (	483310.00,
3721409.00,	482.06,	678.22,	0.00)	DC	
	9TH HIGHEST VALUE IS		0.01165	AT (	483710.00,
3721609.00,	475.81,	475.81,	0.00)	DC	
	10TH HIGHEST VALUE IS		0.01073	AT (	483610.00,

3721309.00, 481.85, 678.13, 0.00) DC



3721609.00,	475.81,	475.81,	0.00)	DC	
6TH HIGHEST VALUE IS			0.00006	AT (	483710.00,
3721509.00,	477.64,	647.12,	0.00)	DC	
7TH HIGHEST VALUE IS			0.00003	AT (	483810.00,
3722009.00,	469.90,	469.90,	0.00)	DC	
8TH HIGHEST VALUE IS			0.00003	AT (	483810.00,
3721909.00,	471.97,	471.97,	0.00)	DC	
9TH HIGHEST VALUE IS			0.00003	AT (	483810.00,
3721809.00,	472.26,	472.26,	0.00)	DC	
10TH HIGHEST VALUE IS			0.00003	AT (	483810.00,
3721709.00,	472.72,	472.72,	0.00)	DC	
OPS_ALL	1ST HIGHEST VALUE IS		0.00295	AT (	483710.00,
3721409.00,	479.86,	647.12,	0.00)	DC	
2ND HIGHEST VALUE IS			0.00282	AT (	483710.00,
3721509.00,	477.64,	647.12,	0.00)	DC	
3RD HIGHEST VALUE IS			0.00265	AT (	483710.00,
3721609.00,	475.81,	475.81,	0.00)	DC	
4TH HIGHEST VALUE IS			0.00262	AT (	483710.00,
3721809.00,	474.89,	474.89,	0.00)	DC	
5TH HIGHEST VALUE IS			0.00260	AT (	483710.00,
3721709.00,	475.04,	475.04,	0.00)	DC	
6TH HIGHEST VALUE IS			0.00246	AT (	483610.00,
3721409.00,	480.57,	653.48,	0.00)	DC	
7TH HIGHEST VALUE IS			0.00239	AT (	483710.00,
3721909.00,	472.09,	472.09,	0.00)	DC	
8TH HIGHEST VALUE IS			0.00238	AT (	483710.00,
3722009.00,	470.37,	470.37,	0.00)	DC	
9TH HIGHEST VALUE IS			0.00098	AT (	483510.00,
3721409.00,	480.56,	678.22,	0.00)	DC	
10TH HIGHEST VALUE IS			0.00085	AT (	483710.00,
3721309.00,	480.43,	653.48,	0.00)	DC	
OPS_ON	1ST HIGHEST VALUE IS		0.00226	AT (	483610.00,
3721409.00,	480.57,	653.48,	0.00)	DC	
2ND HIGHEST VALUE IS			0.00192	AT (	483710.00,
3721409.00,	479.86,	647.12,	0.00)	DC	
3RD HIGHEST VALUE IS			0.00087	AT (	483510.00,
3721409.00,	480.56,	678.22,	0.00)	DC	
4TH HIGHEST VALUE IS			0.00072	AT (	483710.00,
3721509.00,	477.64,	647.12,	0.00)	DC	
5TH HIGHEST VALUE IS			0.00059	AT (	483710.00,
3721309.00,	480.43,	653.48,	0.00)	DC	
6TH HIGHEST VALUE IS			0.00059	AT (	483654.71,
3721301.62,	481.39,	653.48,	0.00)	DC	
7TH HIGHEST VALUE IS			0.00059	AT (	483410.00,
3721409.00,	482.03,	678.22,	0.00)	DC	
8TH HIGHEST VALUE IS			0.00058	AT (	483610.00,
3721309.00,	481.85,	678.13,	0.00)	DC	
9TH HIGHEST VALUE IS			0.00044	AT (	483510.00,
3721309.00,	482.12,	678.22,	0.00)	DC	
10TH HIGHEST VALUE IS			0.00041	AT (	483654.99,

3721256.45, 483.68, 653.48, 0.00) DC

```

*** AERMOD - VERSION 23132 ***   *** C:\Lakes\Menifee_PEMCOR-BP
\Menifee_PEMCOR-BP.isc           ***           09/12/24
*** AERMET - VERSION 16216 ***   ***
***           09:33:33

```

PAGE 78

\*\*\* MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* THE SUMMARY OF  
MAXIMUM PERIOD ( 43824 HRS) RESULTS \*\*\*

MICROGRAMS/M\*\*3                      \*\* CONC OF PM\_10        IN  
   \*\*

NETWORK		AVERAGE CONC			
GROUP ID	RECEPTOR	(XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID	
OPS_OFF	1ST HIGHEST VALUE IS	0.00249	AT (	483710.00,	
3721809.00,	474.89, 474.89,	0.00)	DC		
	2ND HIGHEST VALUE IS	0.00239	AT (	483710.00,	
3721709.00,	475.04, 475.04,	0.00)	DC		
	3RD HIGHEST VALUE IS	0.00231	AT (	483710.00,	
3722009.00,	470.37, 470.37,	0.00)	DC		
	4TH HIGHEST VALUE IS	0.00230	AT (	483710.00,	
3721909.00,	472.09, 472.09,	0.00)	DC		
	5TH HIGHEST VALUE IS	0.00229	AT (	483710.00,	
3721609.00,	475.81, 475.81,	0.00)	DC		
	6TH HIGHEST VALUE IS	0.00210	AT (	483710.00,	
3721509.00,	477.64, 647.12,	0.00)	DC		
	7TH HIGHEST VALUE IS	0.00103	AT (	483710.00,	
3721409.00,	479.86, 647.12,	0.00)	DC		
	8TH HIGHEST VALUE IS	0.00063	AT (	483810.00,	
3722009.00,	469.90, 469.90,	0.00)	DC		
	9TH HIGHEST VALUE IS	0.00062	AT (	483810.00,	
3721909.00,	471.97, 471.97,	0.00)	DC		
	10TH HIGHEST VALUE IS	0.00061	AT (	483810.00,	
3721809.00,	472.26, 472.26,	0.00)	DC		
OPS_IDLE	1ST HIGHEST VALUE IS	0.00042	AT (	483610.00,	
3721409.00,	480.57, 653.48,	0.00)	DC		
	2ND HIGHEST VALUE IS	0.00039	AT (	483510.00,	
3721409.00,	480.56, 678.22,	0.00)	DC		
	3RD HIGHEST VALUE IS	0.00031	AT (	483410.00,	
3721409.00,	482.03, 678.22,	0.00)	DC		
	4TH HIGHEST VALUE IS	0.00022	AT (	483610.00,	
3721309.00,	481.85, 678.13,	0.00)	DC		
	5TH HIGHEST VALUE IS	0.00022	AT (	483710.00,	

3721409.00,	479.86,	647.12,	0.00)	DC	
	6TH HIGHEST VALUE IS		0.00021	AT (	483510.00,
3721309.00,	482.12,	678.22,	0.00)	DC	
	7TH HIGHEST VALUE IS		0.00021	AT (	483654.71,
3721301.62,	481.39,	653.48,	0.00)	DC	
	8TH HIGHEST VALUE IS		0.00020	AT (	483710.00,
3721309.00,	480.43,	653.48,	0.00)	DC	
	9TH HIGHEST VALUE IS		0.00019	AT (	483310.00,
3721509.00,	481.19,	678.22,	0.00)	DC	
	10TH HIGHEST VALUE IS		0.00018	AT (	483310.00,
3721609.00,	479.60,	678.22,	0.00)	DC	
OPS_DRIV	1ST HIGHEST VALUE IS		0.00184	AT (	483610.00,
3721409.00,	480.57,	653.48,	0.00)	DC	
	2ND HIGHEST VALUE IS		0.00170	AT (	483710.00,
3721409.00,	479.86,	647.12,	0.00)	DC	
	3RD HIGHEST VALUE IS		0.00055	AT (	483710.00,
3721509.00,	477.64,	647.12,	0.00)	DC	
	4TH HIGHEST VALUE IS		0.00049	AT (	483510.00,
3721409.00,	480.56,	678.22,	0.00)	DC	
	5TH HIGHEST VALUE IS		0.00039	AT (	483710.00,
3721309.00,	480.43,	653.48,	0.00)	DC	
	6TH HIGHEST VALUE IS		0.00038	AT (	483654.71,
3721301.62,	481.39,	653.48,	0.00)	DC	
	7TH HIGHEST VALUE IS		0.00036	AT (	483610.00,
3721309.00,	481.85,	678.13,	0.00)	DC	
	8TH HIGHEST VALUE IS		0.00027	AT (	483410.00,
3721409.00,	482.03,	678.22,	0.00)	DC	
	9TH HIGHEST VALUE IS		0.00025	AT (	483710.00,
3721609.00,	475.81,	475.81,	0.00)	DC	
	10TH HIGHEST VALUE IS		0.00024	AT (	483654.99,
3721256.45,	483.68,	653.48,	0.00)	DC	

\*\*\* RECEPTOR TYPES: GC = GRIDCART  
 GP = GRIDPOLR  
 DC = DISCCART  
 DP = DISCPOLR

\*\*\* AERMOD - VERSION 23132 \*\*\* \*\*\* C:\Lakes\Menifee\_PEMCOR-BP  
\Menifee\_PEMCOR-BP.isc \*\*\* 09/12/24  
\*\*\* AERMET - VERSION 16216 \*\*\* \*\*\*  
\*\*\* 09:33:33

PAGE 79

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN ADJ\_U\*

\*\*\* Message Summary : AERMOD Model Execution \*\*\*

----- Summary of Total Messages -----

A Total of 0 Fatal Error Message(s)  
A Total of 4 Warning Message(s)  
A Total of 2028 Informational Message(s)  
  
A Total of 43824 Hours Were Processed  
  
A Total of 978 Calm Hours Identified  
  
A Total of 1050 Missing Hours Identified ( 2.40  
Percent)

\*\*\*\*\* FATAL ERROR MESSAGES \*\*\*\*\*  
\*\*\* NONE \*\*\*

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
ME W186 1995 MEOPEN: THRESH\_1MIN 1-min ASOS wind speed  
threshold used 0.50  
ME W187 1995 MEOPEN: ADJ\_U\* Option for Stable Low Winds  
used in AERMET  
MX W450 17521 CHKDAT: Record Out of Sequence in  
Meteorological File at: 14010101  
MX W450 17521 CHKDAT: Record Out of Sequence in  
Meteorological File at: 2 year gap

\*\*\*\*\*  
\*\*\* AERMOD Finishes Successfully \*\*\*  
\*\*\*\*\*

## **APPENDIX C: Health Risk Assessment Calculations**

*This page intentionally left blank*

**Appendix C: Health Risk Assessment Calculations (DPM)  
Pemcor Commerical / Industrial Business Park Project HRA  
Unmitigated Health Risk Calculations - Residential**

**METHODOLOGY**

Dose (Air) = Cair x DBR x A x EF x CF

- Where:
- Cair: Chemical concentration in air ( $\mu\text{g}/\text{m}^3$ )
  - DBR: Daily breathing rate (L/kg-day)
  - A: Inhalation adsorption factor (unitless)
  - EF: Exposure Frequency, days at home / days in year (unitless)
  - CF:  $10^{-6}$  Conversion Factor ( $\text{m}^3/\text{L}$  and  $\text{mg}/\mu\text{g}$ )

Cancer Risk (per million) = Dose (Air) x CPF x ASF x (ED/AT) x FAH x 1,000,000

- Where:
- Dose: Dose of chemical in the air ( $\mu\text{g}/\text{m}^3$ )
  - CPF: Cancer Potency Factor ( $\text{mg}/\text{kg}\text{-day}$ )<sup>-1</sup>
  - ASF: Age Sensitivity Factor
  - ED: Exposure Duration (years)
  - AT: Averaging Time for lifetime cancer risks
  - FAH: Fraction of daily time spent at home / school

**Risk Parameter Values by Age Bin**

Variable	Residential Age Bin				
	3rd Trimester	0-2 Years	2-16 Years	16-30 Years	30-70 Years
DBR	361	1090	572	261	233
A	1	1	1	1	1
EF	0.96	0.96	0.96	0.96	0.96
CF	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06
CPF	1.1	1.1	1.1	1.1	1.1
ASF	10	10	3	1	1
ED	0.25	2	14	14	54
AT	70	70	70	70	70
FAH	0.85	0.85	0.72	0.73	0.73

**AERMOD Modeled DPM Concentrations (PMI/MEIR)**

	Conc.	<u>MEIR</u>		Conc.	<u>PMI</u>	
		X	Y		X	Y
Year 1 (Const)	0.03465	483654.71	3721301.62	0.10716	483610.00	3721409.00
Year 2 (Const and O	0.01017	483654.71	3721301.62	0.03134	483510.00	3721409.00
Year 3 - 30 (Ops)	0.00076	483654.71	3721301.62	0.00295	483710.00	3721409.00

**Risk Assessment at MEIR**

Scenario	AERMOD DPM Conc.	Chronic Hazard Quotient
Year 1 (Con)	0.03465	0.00693
Year 2 (Con)	0.01017	0.002034
Year 3-30 (Ops)	0.00076	0.000152

**Year 1 Dose @ MEIR**

Age Group	Cair x	BR	A	EF	CF	=	Dose
3rd Trimester	0.03465	361	1	0.96	1.00E-06	=	1.20E-05
0-2 Years	0.03465	1090	1	0.96	1.00E-06	=	3.62E-05
2-16 Years	0.03465	572	1	0.96	1.00E-06	=	1.90E-05
16-30 Years	0.03465	261	1	0.96	1.00E-06	=	8.67E-06
30-70 Years	0.03465	233	1	0.96	1.00E-06	=	7.74E-06

**Year 1 Excess Risk at MEIR**

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
3rd Trimester	1.20E-05	1.1	10	0.25	70	0.85	1,000,000	0.4
0-2 Years	3.62E-05	1.1	10	1.00	70	0.85	1,000,000	4.8
2-16 Years	1.90E-05	1.1	3	1.00	70	0.72	1,000,000	0.6
16-30 Years	8.67E-06	1.1	1	1.00	70	0.73	1,000,000	0.1
30-70 Years	7.74E-06	1.1	1	1.00	70	0.73	1,000,000	0.1

**Year 2 @ MEIR**

Age Group	Cair x	BR	A	EF	CF	=	Dose
0-2 Years	0.01017	1090	1	0.96	1.00E-06	=	1.06E-05
2-16 Years	0.01017	572	1	0.96	1.00E-06	=	5.58E-06
16-30 Years	0.01017	261	1	0.96	1.00E-06	=	2.55E-06
30-70 Years	0.01017	233	1	0.96	1.00E-06	=	2.27E-06

**Year 2 Excess Risk at MEIR**

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
0-2 Years	1.06E-05	1.1	10	1.00	70	0.85	1,000,000	1.4
2-16 Years	5.58E-06	1.1	3	1.00	70	0.72	1,000,000	0.2
16-30 Years	2.55E-06	1.1	1	1.00	70	0.73	1,000,000	0.0
30-70 Years	2.27E-06	1.1	1	1.00	70	0.73	1,000,000	0.0

**Year 3 - 30 Dose @ MEIR**

Age Group	Cair x	BR	A	EF	CF	=	Dose
0-2 Years	0.00076	1090	1	0.96	1.00E-06	=	7.94E-07
2-16 Years	0.00076	572	1	0.96	1.00E-06	=	4.17E-07
16-30 Years	0.00076	261	1	0.96	1.00E-06	=	1.90E-07
30-70 Years	0.00076	233	1	0.96	1.00E-06	=	1.70E-07

**Year 3 - 30 Excess Risk at MEIR**

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
0-2 Years	7.94E-07	1.1	10	1.00	70	0.85	1,000,000	0.1
2-16 Years	4.17E-07	1.1	3	1.00	70	0.72	1,000,000	0.0
16-30 Years	1.90E-07	1.1	1	1.00	70	0.73	1,000,000	0.0
30-70 Years	1.70E-07	1.1	1	1.00	70	0.73	1,000,000	0.0

**Total Excess Risk at MEIR (Cumulative, Based on Age at Start of Construction)**

Exposure Year	Infant	Child < 2	Child 2<x<16	Adult 16<x<30	Adult 30<x<70
Year 1	5.2	4.8	0.6	0.1	0.1
Year 2	1.4	1.4	0.2	0.0	0.0
Year 2-16	0.2	0.2	0.2	0.0	0.0
Year 16-30	0.0	0.0	0.0	0.0	0.0
Total	6.9	6.5	1.0	0.2	0.2

Note: Infant exposure includes infant and child (0.75 years exposure) in Year 1

**Appendix C: Construction Health Risk Assessment Calculations (DPM)  
Pemcor Commerical / Industrial Business Park Project HRA  
Unmitigated Health Risk Calculations - Community Burden**

**METHODOLOGY**

Dose (Air) = Cair x DBR x A x EF x CF

- Where:
- Cair: Chemical concentration in air ( $\mu\text{g}/\text{m}^3$ )
  - DBR: Daily breathing rate (L/kg-day)
  - A: Inhalation adsorption factor (unitless)
  - EF: Exposure Frequency, days at home / days in year (unitless)
  - CF:  $10^{-6}$  Conversion Factor ( $\text{m}^3/\text{L}$  and  $\text{mg}/\mu\text{g}$ )

Cancer Risk (per million) = Dose (Air) x CPF x ASF x (ED/AT) x FAH x 1,000,000

- Where:
- Dose: Dose of chemical in the air ( $\mu\text{g}/\text{m}^3$ )
  - CPF: Cancer Potency Factor ( $\text{mg}/\text{kg}\text{-day}$ )<sup>-1</sup>
  - ASF: Age Sensitivity Factor
  - ED: Exposure Duration (years)
  - AT: Averaging Time for lifetime cancer risks
  - FAH: Fraction of daily time spent at home / school

**Risk Parameter Values by Age Bin**

Variable	Residential Age Bin				
	3rd Trimester	0-2 Years	2-16 Years	16-30 Years	16-70 Years
DBR	361	1090	572	261	233
A	1	1	1	1	1
EF	0.96	0.96	0.96	0.96	0.96
CF	1.00E-06	1.00E-06	1.00E-06	1.00E-06	1.00E-06
CPF	1.1	1.1	1.1	1.1	1.1
ASF	10	10	3	1	1
ED	0.25	2	14	14	54
AT	70	70	70	70	70
FAH	0.85	0.85	0.72	0.73	0.73

**AERMOD Modeled DPM Concentrations**

	Conc.
Year 1	0.03465
Year 2	0.01017
Year 3	0.00076

Age Group	Cair x	BR	A	EF	CF		Dose
3rd Trimester	0.03465	361	1	0.96	1.00E-06	=	1.20E-05
0-2 Years	0.03465	1090	1	0.96	1.00E-06	=	3.62E-05
2-16 Years	0.03465	572	1	0.96	1.00E-06	=	1.90E-05
16-30 Years	0.03465	261	1	0.96	1.00E-06	=	8.67E-06
30-70 Years	0.03465	233	1	0.96	1.00E-06	=	7.74E-06

**Year 1 Excess Risk for Community**

Age Group	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
3rd Trimester	1.20E-05	1.1	10	0.25	70	0.85	1,000,000	0.4
0-2 Years	3.62E-05	1.1	10	1.00	70	0.85	1,000,000	4.8
2-16 Years	1.90E-05	1.1	3	1.00	70	0.72	1,000,000	0.6
16-30 Years	8.67E-06	1.1	1	1.00	70	0.73	1,000,000	0.1
30-70 Years	7.74E-06	1.1	1	1.00	70	0.73	1,000,000	0.1

**Year 2 Dose for Community**

Age Group	Cair x	BR	A	EF	CF	=	Dose
0-2 Years	0.01017	1090	1	0.96	1.00E-06	=	1.06E-05
2-16 Years	0.01017	572	1	0.96	1.00E-06	=	5.58E-06
16-30 Years	0.01017	261	1	0.96	1.00E-06	=	2.55E-06
30-70 Years	0.01017	233	1	0.96	1.00E-06	=	2.27E-06

**Year 2 Excess Risk for Community**

Year 2 - 30 D <sub>i</sub>	Dose	CPF	ASF	ED	AT	FAH	Conversion	Risk
0-2 Years	1.06E-05	1.1	10	1.00	70	0.85	1,000,000	1.4
2-16 Years	5.58E-06	1.1	3	1.00	70	0.72	1,000,000	0.2
16-30 Years	2.55E-06	1.1	1	1.00	70	0.73	1,000,000	0.0
30-70 Years	2.27E-06	1.1	1	1.00	70	0.73	1,000,000	0.0

**Total Excess Risk for Community (Adjusted for Millions)**

	Infant	Child < 2	Child 2<x<16	Adult 16<x<30	Adult 30<x<70
Year 1	5.24E-06	4.84E-06	6.45E-07	9.95E-08	8.88E-08
Year 2	1.42E-06	1.42E-06	1.89E-07	2.92E-08	2.61E-08
Year 2-16	2.65E-06	2.65E-06	2.33E-06	4.03E-07	3.65E-07
Year 16-30	4.09E-07	4.09E-07	3.13E-07	3.65E-07	3.65E-07
Year 30-70	1.04E-06	1.04E-06	9.90E-07	6.26E-07	-
Total	1.08E-05	1.04E-05	4.47E-06	1.52E-06	8.45E-07

Note: Infant exposure includes infant and child (0.75 years exposure) in Year 1

Population 93

**Calculated Community Cancer Burden (Product of Risk, in Millions, and Population)**

	Infant	Child < 2	Child 2<x<16	Adult 16<x<30	Adult 30<x<70
Total	0.001001	0.000963	0.000416	0.000142	0.000079